CellDEK TEK User's Manual

Version: 1.25

MAN-CDTEK

08/22/13

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Table of Contents

LOGICUBE DISCLAIMER ..... **I**

IMPORTANT NOTICE: PLEASE READ CAREFULLY ..... **I**

WARRANTY ..... **II**

LOGICUBE ROHS COMPLIANCE STATEMENT ..... **II**

LOGICUBE DECLARATION OF CONFORMITY ..... **II**

END USER LICENSE AGREEMENT (EULA) ..... **III**

INTRODUCTION **5**

RECOMMENDED USE OF CELLDEK TEK 5
MINIMUM PC REQUIREMENTS 6
CURRENT SOFTWARE VERSION OF CELLDEK TEK 6
FEATURES 6
USING THIS GUIDE 7
CONTENTS 7

OVERVIEW OF THE CELLDEK TEK **8**

SETTING UP THE CELLDEK TEK **9**

SOFTWARE INSTALLATION INSTRUCTIONS **9**

MINIMUM AND RECOMMENDED PC REQUIREMENTS 9
POSSIBLE ISSUES/CONFLICTS 10
STEP BY STEP CELLDEK TEK INSTALLATION INSTRUCTIONS 10
How to Remove Driver Signing in Windows XP *14*
CONNECTING THE CELLDEK TEK TO THE HOST PC 16
Step by step Instructions *16*

INSTALLING ACCESSORIES **19**

Installing the IR / Bluetooth Module *19*
Installing the Internal Battery *19*

STARTING CELLDEK TEK **19**

BATTERY STATUS (INTERNAL BATTERY) 19
CHARGING CELLDEK TEK 20
CONNECTING CELLDEK TEK TO A PC 20
LAUNCHING THE CELLDEK TEK APPLICATION 20
SHUTTING DOWN CELLDEK TEK 21
IMPORTANT NOTES 22

IDENTIFYING A TARGET DEVICE **22**

ATTACHING A CELLULAR PHONE 22
Physical Extraction *23*

Logical Extraction *24*
Generic Extraction Module *28*
ATTACHING A PDA 28
ATTACHING A SIM CARD 30
SIM PIN and PUK Codes *31*
Dual SIM Extracted Data *31*
ATTACHING A MEMORY FLASH CARD 33
Imaging Flash Media *33*
ATTACHING A GPS DEVICE 34
Generic GPS Extraction *36*
GPS Track Logs *37*
Opening GPSData.gpx Output Files in Google Earth *37*
Geo-Tag Data from Images *40*
ATTACHING AN APPLE IPHONE 41

CONNECTION OPTIONS 42

HELPER ICONS 43
CABLE CONNECTION 43
BLUETOOTH CONNECTION 43
Connecting to a Cell Phone via Bluetooth *44*
INFRARED (IR) CONNECTION 45
CUSTOM EXTRACTION 46
SIM CARD CONNECTION 47

CONNECTIVITY ICONS 47

OTHER CONNECTIVITY ICONS 48

NETWORK ISOLATION CARDS (NIC) AND SIM CARD ID CLONING 48

SIM CARD ID CLONING STEP-BY-STEP 49
Create from Existing SIM *50*
Manually enter NIC data *52*
Create a test NIC *54*

EXTRACTION WITHOUT A SIM CARD 55

CAPTURING NOKIA HANDSETS - ADAPTERS 56

NOKIA CA-42 CABLE INSTALLATION 56
NOKIA FLASH ADAPTERS 56
Attaching Nokia Flash Adapters *57*

OTHER HANDSETS THAT REQUIRE ADAPTERS 60

CASE DETAILS 61

OTHER NOTES 61

DATA EXTRACTION 62

SEARCHING FOR DRIVERS 62
STANDARD DATA EXTRACTION 62
ABORT CAPTURE 62
EXTENDED DATA EXTRACTION 63
SUPPORT FOR NON-LATIN LANGUAGES 64
Special Note for Motorola and Sony Ericsson *65*

OTHER DATA EXTRACTION NOTES 65

SQLITE VIEWER 65
ANDROID DEVICES 67

Samsung Galaxy S3 ..... *67*
Android Ad-hoc Device Rooting *68*
Android Email *70*
Android App Data *70*
Android Location Information *70*
Android files of Interest *70*
DATA CAPTURE FROM APPLE IPHONE 71
PLIST VIEWER 71
iPhone Passcode Bypass *72*
iPhone App Data *74*
Apple Location Information *74*
iPhone Dictionary Data *74*
iPhone files of Interest *74*
DATA CAPTURE FROM SYMBIAN OS 75
CAPTURE FROM SYMBIAN UIQ 2ND & 3RD EDITION OS 75
Symbian Event Logs *76*
DATA CAPTURE FROM SONY ERICSSON PHONES 77
BLACKBERRY PIN LOCK 78
BlackBerry PIN Numbers *78*
TIME/DATE STAMPS FROM MOTOROLA PHONES 79
NULL RESPONSE FROM SIEMENS HANDSETS 79
SMS ATTACHED CONTENT 79
VARIOUS WINMOBILE DEVICES 80
OTHER EXTRACTION NOTES 80

DISPLAYING EXTRACTED DATA 81

KEYWORD SEARCH 84
VIEWING EXTRACTED DATA 86
DISPLAYING PREVIOUS EXTRACTIONS 87

THE AUDIT TRAIL 88

THE REPORT 88

MAIN APPLICATION SCREEN 89

MANAGING FILES 89

DELETING FILES 91

SOFTWARE UPDATE INSTRUCTIONS 92

ITUNES INFORMATION AND UPDATES 92

SYSTEM SETUP 93

LOGICAL EXTRACTION 93
PHYSICAL EXTRACTION 95
REPORT BUTTON 96
On Screen Report Settings *96*
Output Report Settings *97*
SECURITY BUTTON 97
INFORMATION BUTTON 99

TECHNICAL NOTES 100

CONFLICTING DRIVER INSTRUCTIONS 100

HOW TO CHANGE DEVICE DRIVERS 100

SUPPORTED MANUFACTURERS 105

GLOSSARY **106**
HANDSETS TESTED ON CELLDEK AND THE RESULTS VERIFIED **108**
HANDSETS – EXPECTED SUPPORT **141**
HANDSETS – OTHER **151**
GPS DEVICE – VERIFIED CELLDEK SUPPORT **151**
ADDITIONAL CABLE SUPPORT FOR PDAS **153**
CELLDEK TEK SOFTWARE LICENSE - EU **157**
CELLDEK TEK SOFTWARE LICENSE - US **165**
GNU GENERAL PUBLIC LICENSE **169**
TECHNICAL SUPPORT INFORMATION **175**

1. Introduction to CellDEK TEK

Introduction

Congratulations on your purchase of CellDEK TEK from the manufacturers of the CellDEK fully integrated extraction system.

CellDEK TEK is designed for the technically proficient forensic investigator and uses the same advanced technology as CellDEK, but allows the user to have full control in a windows environment. CellDEK TEK can be installed on any type of Windows PC or laptop running Windows XP (See minimum specifications below).

TEK stands for Technical Extraction Kit. It is designed to carry out data extractions from cell phones, PDAs, SIM cards, flash memory and GPS devices. Data can be extracted from phones and PDA devices using three connection methods; data cables, infrared ports or Bluetooth® radio frequency communications. The target devices may connect to CellDEK TEK by one, two or all three of these methods.

The CellDEK TEK software also helps with easy identification of the target device and informs the user of available connection methods. The user can select the preferred connection method. Historically, data cable connection has been time-consuming as it can be difficult to locate and identify the correct data cable for the target device. CellDEK TEK eliminates this by using a set of intelligent data cable connectors. Once the target device has been identified, CellDEK TEK automatically selects the correct data cable connector from the connector rack. This is a fast and reliable data cable connector selection process.

Recommended use of CellDEK TEK

CellDEK TEK is a forensically sound mobile phone and PDA data extraction tool, able to obtain real time intelligence from a mobile handset in the field or in the laboratory. It is not designed to extract every piece of information from

the phone as a full forensic examination would provide, but is designed to obtain key information. It is aimed at getting information immediately from the mobile handset to help move an investigation forward. CellDEK TEK has been designed with a full audit trail allowing users to demonstrate when actions were taken.

CellDEK TEK has been tested on a large range of handsets and its capabilities are displayed during the data extraction process. These tests have verified that CellDEK TEK extracts data reliably.

Users should consider using CellDEK TEK in an appropriate environment to prevent the suspect handset from receiving any messages or calls that will change its data. This can also be considered as interception and hamper an investigation. The user should consult with their local authorities for recommendations on the legal implications of intercepting data in the context of their examinations.

Minimum PC Requirements

- PC/Laptop with Pentium 300 megahertz (MHz) or higher processor clock speed.
- System Memory: 256Mb RAM Minimum.
- Windows XP compatible PC/Laptop with Service Pack 2.
- 500Mb of Available Hard drive space (Minimum to install and run application. Note: amount of data downloadable from a device will be limited upon hard disk space available for storage of transferred data).
- Internal/External CD drive (For Installation only).
- USB Port.
- XGA (1024 × 768) or higher resolution video adapter and monitor.

Current Software Version of CellDEK TEK

As of this writing, the latest software version available on CellDEK TEK is 1.25.

A quarterly software upgrade package is available by subscription. This will increase the capabilities of CellDEK TEK and ensure CellDEK TEK develops in line with new handsets and technologies released onto the market. Please contact your CellDEK TEK distributor or Logicube to purchase a subscription.

New software features are listed in the CellDEK TEK activity log every time the software is launched.

Features

- Able to connect to a wide variety of cellular phones, GPS devices and PDA (Personal Digital Assistant) devices.
- Direct connection via cable, IR (Infrared) or Bluetooth.
- Built-in cellular phone identification module.
- Water-resistant, rugged carrying case.
- MD5 Hash to ensure that captured data is not tampered with.
- Works in tandem with user's own desktop or laptop PC.

Using this guide

This user guide is made up of 6 sections:

- Introduction
- Getting Started (Fast Start)
- Capturing Data
- Analyzing Captured Data
- Other Features
- FAQs and Troubleshooting Guide

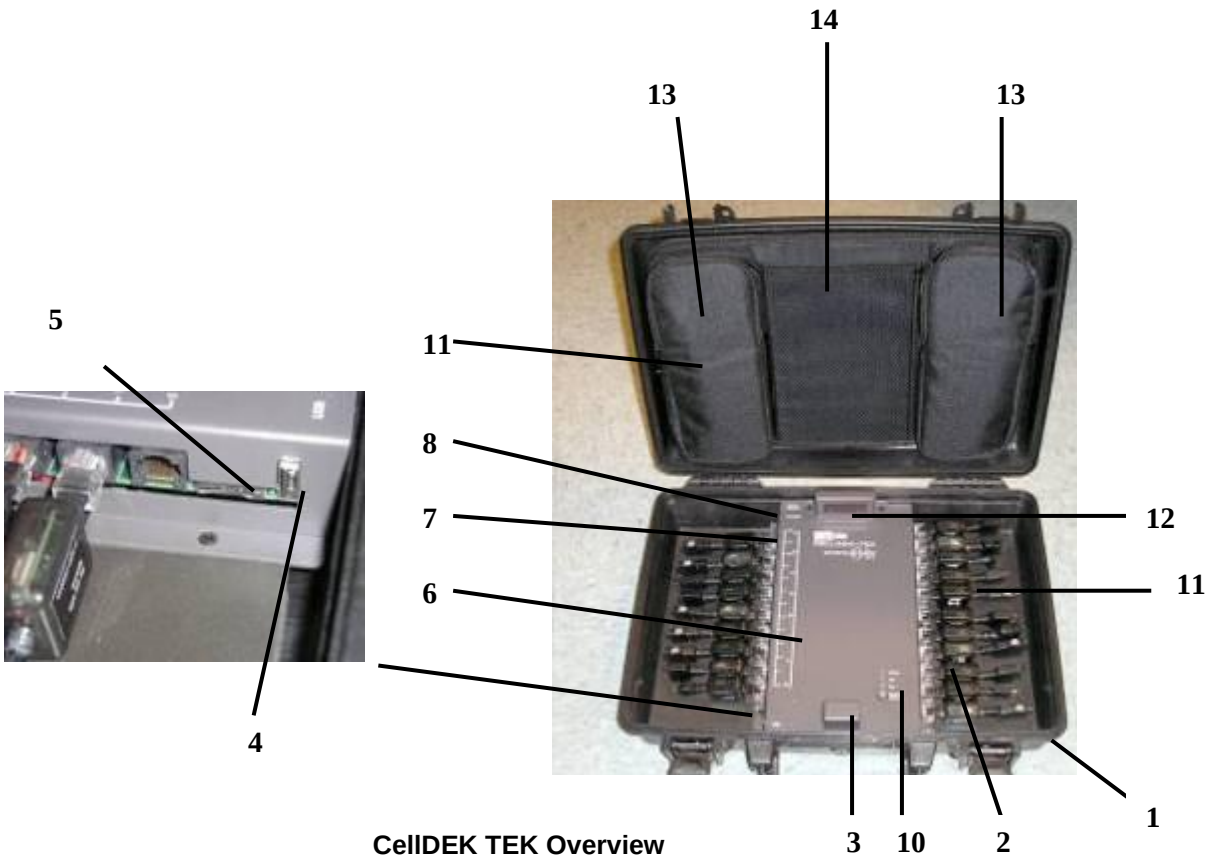
Contents

- CellDEK TEK hardware in a rugged, water-resistant carrying case.
- A set of intelligent data cables, which are able to connect to a variety of popular cellular phones.
- 1 Nokia CA-42 Cable.
- 8 Nokia Flash Adapters
  (CBL-CDNK1 through 3 and CBL-CDNK5 through 9)
- 1 Internal Battery Pack (Installed)
- 1 IR/Bluetooth Module (Installed)
- 1 Network Isolation Card (NIC)
- An AC adapter
- A USB Cable
- A 12V Power Cable that connects to a military-style battery
- 2 CDs containing CellDEK TEK software, Core Components and a copy of the Users' Manual
- A Quick-start Guide

CellDEK TEK

2. Getting Started (Quick Start)

Overview of the CellDEK TEK



CellDEK TEK Overview

1. **CARRYING CASE** – This rugged carrying case protects the CellDEK TEK hardware from moisture and other environmental hazards.
2. **PHONE CABLE ADAPTER RACK** – This rack is for cell phone adapter cables that are not currently in use. It is also where the CellDEK TEK detects the adapter cable prior to a capture. The rack can hold up to 20 Adapters.
3. **PHONE CABLE JACK** – When CellDEK TEK lights the correct adapter; plug it into this slot.
4. **USB PORT #1** – This USB port is used to connect an external USB drive for data backup purposes. When used to extract data from a USB drive, the port becomes write-protected.

5. **SIM CARD SLOT** – This port allows users to capture data directly off the SIM or USIM card.
6. **MEASURING TOOL** – Use this ruler to measure a handset's dimensions in inches or centimeters.
7. **USB PORT #2** – This USB port connects the CellDEK TEK hardware to the laptop or desktop PC that is running CellDEK software.
8. **AC POWER SOCKET** – The AC power supply plugs into this socket. The power supply charges the optional CellDEK TEK battery.
9. **EXPANSION SLOT** – This slot is where the IR / Bluetooth module connects.
10. **BATTERY TEST METER** – This button tests the current life of the internal battery. Three LED's show the battery's status.
11. **PHONE ADAPTER CABLES** – These adapter cables connect the CellDEK TEK to a large variety of handsets. 20 adapters fit on the rack.
12. **EXPANSION PORT COVER PLATE** – This plate protects the expansion slot when the IR / Bluetooth module is not being used.
13. **STORAGE BAG** – These storage bags can hold extra phone adapters, cables and other items.
14. **QUICK START GUIDE** – This laminated card sits in a mesh bag for easy reference.

Setting up the CellDEK TEK

Proper setup of the CellDEK TEK requires two major steps:

- Install the CellDEK TEK software on a host PC.
- Attach the CellDEK TEK to the host PC.

Both of these procedures are outlined below.

Software Installation Instructions

The enclosed **CellDEK TEK** software CD-ROM and the Core Components CD-ROM can be installed on any Desktop or laptop PC that meets the minimum system requirements.

IMPORTANT NOTE: Do not attach the USB cable and the **CellDEK TEK** device to your computer system until the software is fully installed and the computer system has been restarted. Please refer to the ***Connecting the CellDEK TEK to a PC*** Setup Instructions.

Minimum and Recommended PC Requirements

Minimum Specification

- PC/Laptop with Pentium 300 megahertz (MHz) or higher processor clock speed.
- System Memory: 256MB RAM Minimum.
- Windows XP with Service Pack 2 or higher
- 500MB of Available Hard drive space (Minimum to install and run application. Note: amount of data downloadable from a device will

be limited upon hard disk space available for storage of transferred data).

- Internal/External CD drive (For Installation only).
- USB Port.
- XGA (1024 × 768) or higher resolution video adapter and monitor.

Recommended Specification

In addition to the above minimum specifications, recommended are:

- Processor: Intel Pentium m Processor 1.10GHz or higher.
- System Memory: 512 MB RAM or higher recommended.
- Windows XP with Service Pack 2 or higher.
- USB 2.0 port.
- 40GB or larger hard drive.

Possible Issues/Conflicts

Installing on a System without Windows XP Service Pack 2 or higher

Windows XP itself does not support USB 2.0. This was updated in Service Pack 2. Systems not running Service Pack 2 will still be able to install the software but may not be able to connect to the hardware.

Installing on a System without Windows XP Service Packs 1 or 2

Windows XP again does not support Bluetooth Devices. This was updated with Service Pack 1. Again systems would be able to install the software but may not be able to connect to the hardware.

Pre-Existing Software

It is strongly recommend that you uninstall all previously installed phone applications and phone extraction software before performing the CellDEK TEK software installation.

Doing so will prevent any previously loaded phone device drivers loaded by other phone software applications from conflicting with those the CellDEK TEK software uses. Problems and delays may result if pre-existing drivers are selected for phone extractions instead of the correct drivers installed by the CellDEK TEK software.

To resolve a driver conflict, follow the *Conflicting Driver Instructions in the Other Features & Technical Notes* section of this manual.

Step by step CellDEK TEK Installation Instructions

1. Insert the CellDEK TEK CD-ROM into your computer's CD-ROM drive.
2. The CellDEK TEK Setup software will launch automatically. If not,
   a. Double-click the ***My Compute****r* icon.
   b. Right-click the CD- ROM drive letter.

NOTE*:* Where *X:*\ it represents the letter drive assigned to your CD-ROM drive by the operating system.

   c. Click ***Open***.

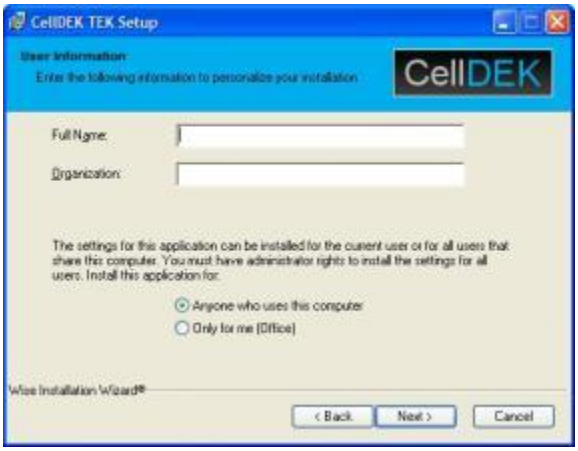
d. Double-click the ***CellDEKTEK.exe*** icon

3. On the Welcome to the *CellDEK TEK Installation Wizard* screen click the *Next* button.

CellDEK TEK Setup
CellDEK
Welcome to the CellDEK TEK Installation Wizard
It is strongly recommended that you exit all Windows programs before running this setup program.
Click Cancel to quit the setup program, then close any programs you have running. Click Next to continue the installation.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
< Back
Next >
Cancel

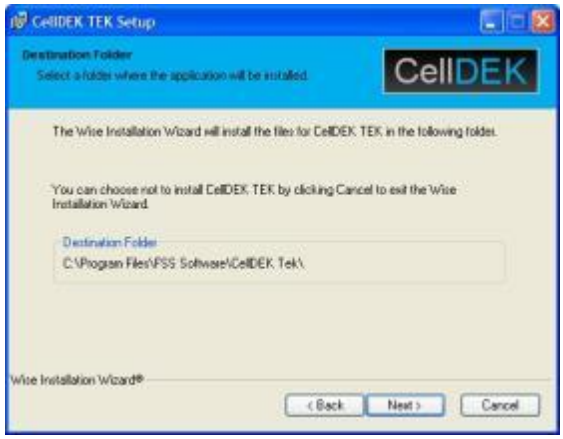
Installation Wizard

4. On the ***User Information*** screen enter your *Full Name*: and your *Organization:* information and chose either the *Anyone who uses this computer* option or *Only for me* option settings then click the ***Next*** button.


CellDEK TEK Setup
User Information
Enter the following information to personalize your installation.
CellDEK
Full Name:
Organization:
The settings for this application can be installed for the current user or for all users that share this computer. You must have administrator rights to install the settings for all users. Install this application for:
Anyone who uses this computer
Only for me (Office)
Wise Installation Wizard®
< Back
Next >
Cancel

User Information

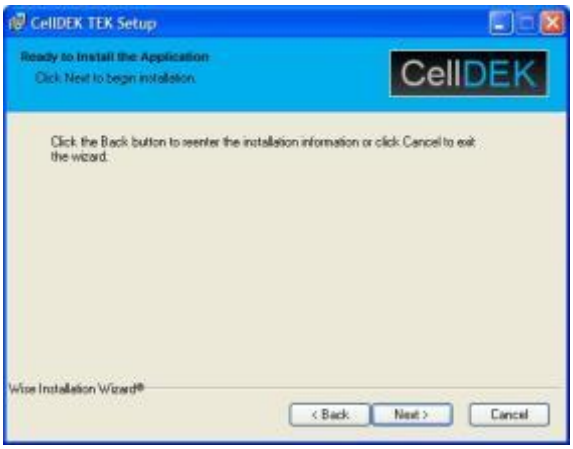
5. Click the ***Next*** button on the Destination Folder screen.


CellDEK TEK Setup
Destination Folder
Select a folder where the application will be installed.
CellDEK
The Wise Installation Wizard will install the files for CellDEK TEK in the following folder.
You can choose not to install CellDEK TEK by clicking Cancel to exit the Wise Installation Wizard.
Destination Folder
C:\Program Files\FSS Software\CellDEK Tek\
Wise Installation Wizard®
< Back
Next >
Cancel

Destination Folder

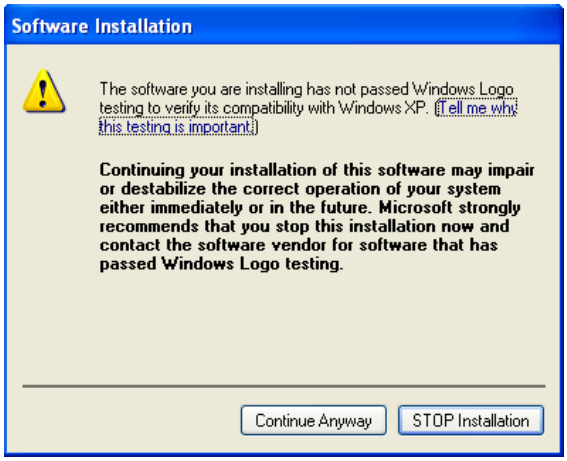
NOTE: The CellDEK.exe file can manually be found at *C:\Program Files\FSS Software\CellDEK Tek\CellDEK.exe* and the data files containing capture reports can manually be found at *C:\Program Files\FSS Software\CellDEK Tek\Datafiles*.

6. Click the ***Next*** button at the ***Ready to install the Application*** screen to start the updating system process. This portion will take several minutes to complete.


CellDEK TEK Setup
Ready to Install the Application
Click Next to begin installation.
CellDEK
Click the Back button to reenter the installation information or click Cancel to exit the wizard.
Wise Installation Wisard®
< Back
Next >
Cancel

Ready to Install

NOTE: During the installation, you may see a screen appear stating the software has not passed Windows Logo testing to verify its compatibility with Windows XP. Click the ***Continue Anyway*** button if this appears.


Software Installation
The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Software Installation pop-up

At the CellDEK TEK has been successfully installed screen click the ***Finish*** button.

CellDEK TEK Setup
CellDEK
CellDEK TEK has been successfully installed.
Click the Finish button and you may now connect your hardware to exit this installation.
< Back
Finish
Cancel

Installation Complete

The installer will check to see if the 21 required components have been installed. If the Core Components are installed the installation is complete and you can click ***Exit***. If all of the required Core Components have not been installed a note will appear indicating: *Setup has detected X of 21 required components have been installed*. Click ***Exit*** and eject the Software Installation Disk.

If you received a message indicating some or all of the core components are not installed, insert the CellDEK TEK Core Components Software Ver. 1.3.0 CD-ROM into your computer's CD-ROM drive. At the ***CellDEK TEK*** Main setup screen click the ***Install*** button next to ***Install CellDEK TEK core components.***

CellDEK TEK
FORENSIC SCIENCE SERVICE
Core components disk
for version 1.3.0
Install CellDEK TEK core components
Auto-installs third party applications and drivers onto the host PC. These applications are essential to the running of CellDEK TEK.
To prevent unnecessary Windows security warnings switch off Driver Signing. To find out how to do this click here.
Setup has detected that 0 of the 21 required components have been installed.
Show installed components >>
Install
© 2008 Forensic Science Service Ltd.
Exit

Installation Menu

NOTE: To prevent unnecessary Windows security warnings it is recommended that you disable driver signing. This option can be re-enabled after the installation. Instructions to turn off driver signing can be found in the next section called ***How to Remove Driver Signing in Windows XP***.

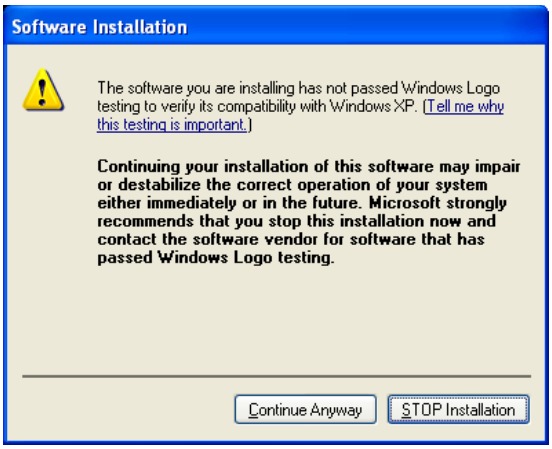
Click the ***Install*** button on the Component Installer screen and accept the third party application installation by clicking Continue.

On the ***Select Components to Install*** screen ensure that all items are selected by placing a check mark on each option available. Click the Install button.

NOTE: The ***Install CellDEK TEK Core Components*** install procedure will install 21 required components which will take several minutes to complete.

During the automated installation procedure many dialog boxes will appear on the computer screen copying the necessary files to the computer system.

NOTE: If the driver signing warning option was **NOT** switched to off from Windows then the install procedure will display several dialog boxes like the one shown below. This window is simply requesting that the user click the ***Continue Anyway*** button each time it appears.


Software Installation
The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Driver Signing Warning

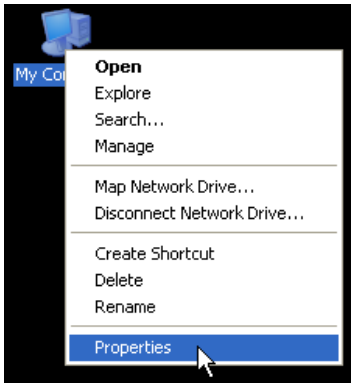
Click the ***Finish*** button at the All components have been installed dialog box.

Click Exit and remove the CellDEK TEK Core components CD-ROM.

Restart the computer system to install the Core Components and CellDEK TEK software.

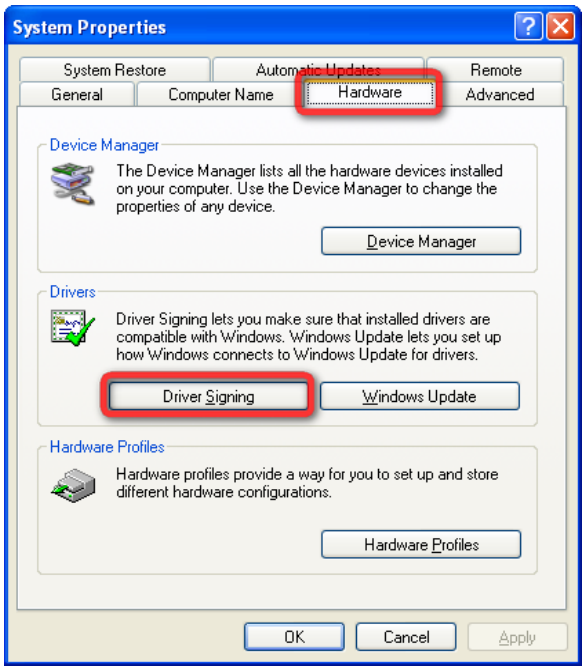
How to Remove Driver Signing in Windows XP

1. On the Desktop (or from your Start Menu), right-click the ***My Computer*** icon and select ***Properties*** from the menu to display the System Properties window.



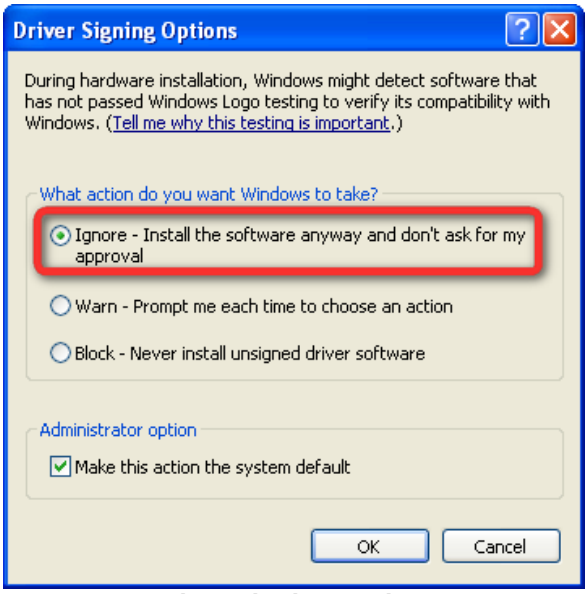
My Computer Properties

2. On the System Properties window, select the ***Hardware tab*** then click the ***Driver Signing*** button.


System Properties
System Restore
Automatic Updates
Remote
General
Computer Name
Hardware
Advanced
Device Manager
The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.
Device Manager
Drivers
Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers.
Driver Signing
Windows Update
Hardware Profiles
Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware Profiles
OK
Cancel
Apply

System Properties Window

3. In the Driver Signing Options window, select ***Ignore – Install the software anyway and don't ask for my approval*** then click the ***OK*** button.


Driver Signing Options
During hardware installation, Windows might detect software that has not passed Windows Logo testing to verify its compatibility with Windows. (Tell me why this testing is important.)
What action do you want Windows to take?
Ignore - Install the software anyway and don't ask for my approval
Warn - Prompt me each time to choose an action
Block - Never install unsigned driver software
Administrator option
Make this action the system default
OK
Cancel

Driver Signing Options

Connecting the CellDEK TEK to the Host PC

Once the software installation is complete, follow the procedure below to connect the CellDEK TEK unit to the host PC for the first time.

IMPORTANT NOTE: Do not attach the USB cable and the **CellDEK TEK** device to your computer system until the software is fully installed and the computer system has been restarted.

Step by step Instructions

1. Power up the PC that has the CellDEK TEK software installed.
2. Power up the CellDEK TEK hardware.
3. Plug in the USB Cable between USB Port #2 on the CellDEK TEK and an open USB Port on the PC.

   NOTE: USB Port #2 is next to the DC Power Socket on the CellDEK TEK.
4. The CellDEK TEK will immediately be recognized as a USB device and the Phone Adapter Cables will flash red.

NOTE: During the USB detection process of the CellDEK TEK device Windows will display the Welcome to the found new hardware wizard. During the initial detection process the user will be prompted to respond and interact with the on screen prompts.

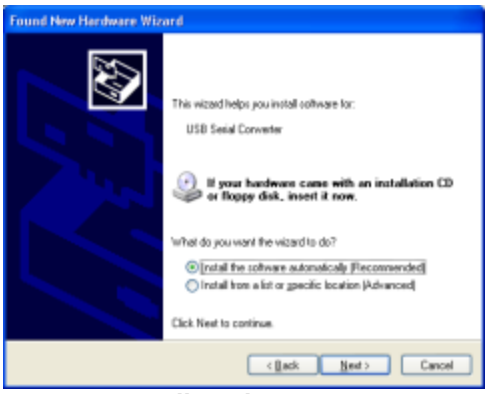
If the CellDEK TEK hardware is connected to a different USB port on the computer this process will need to be repeated.

5. **Prompt #1-** Click ***Yes, This time only***, and then click the ***Next*** button. See below.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

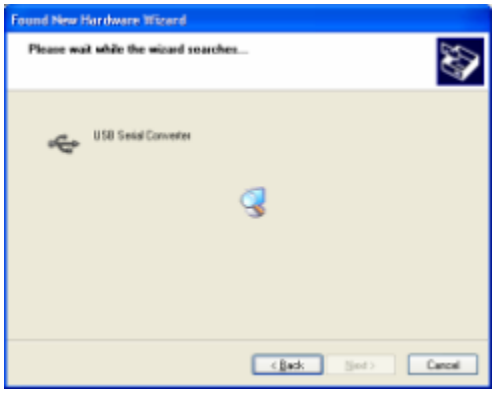
New Hardware Wizard

6. At the ***USB Serial Converter*** screen below select ***Install Software Automatically (Recommended)*** option and click the ***Next*** button.


Found New Hardware Wizard
This wizard helps you install software for:
USB Serial Converter
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

Install Options Menu

7. The ***Found New Hardware Wizard*** will perform a search for the USB Serial Converter.



Driver Search Screen

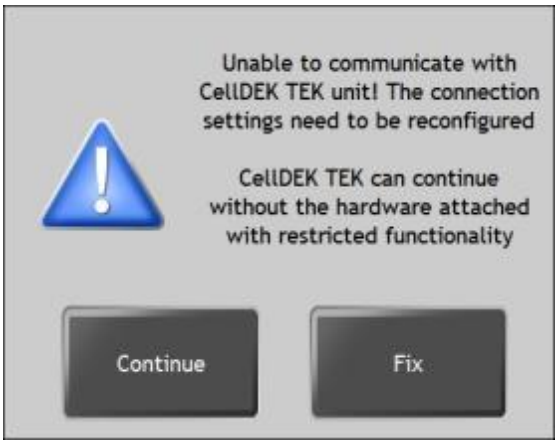
8. When the installation is complete, click the ***Finish*** button.

Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
USB Serial Converter A
Click Finish to close the wizard.
< Back
Finish
Cancel

Installation Complete

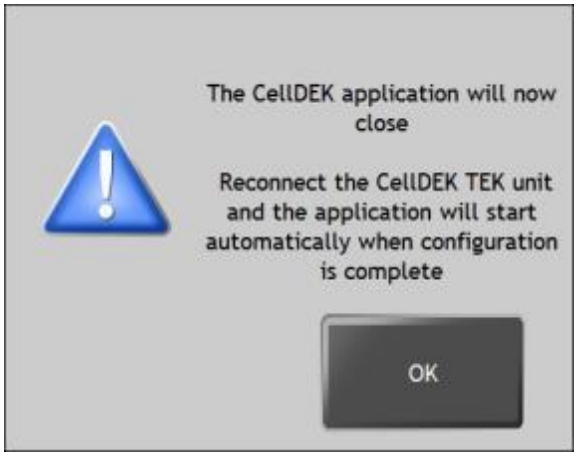
9. Repeat Steps 5 - 8 for the ***USB converter***, ***USB Serial Port*** and any other hardware that is detected. Several USB devices will be detected. Do not cancel out of any prompts.
10. After the USB detection is complete Double-click the CellDEK shortcut on the Desktop to Launch the CellDEK TEK software application.

11. CellDEK TEK software will automatically launch the EULA End User License Agreement if the CellDEK TEK hardware is detected. If the hardware is not detected, the following notification screen will appear. Click the **Fix** button to attempt to re-detect the CellDEK TEK.


Unable to communicate with CellDEK TEK unit! The connection settings need to be reconfigured
CellDEK TEK can continue without the hardware attached with restricted functionality
Continue
Fix

CellDEK TEK Notification

12. The following instruction window will appear. Click the ***OK*** button to close the CellDEK TEK application.


The CellDEK application will now close
Reconnect the CellDEK TEK unit and the application will start automatically when configuration is complete
OK

CellDEK Port Config Screen

13. Disconnect the USB cable coming from the CellDEK TEK to the PC.
14. Wait about 10 seconds then re-connect the USB cable to the PC.
15. The CellDEK TEK software should automatically start.

IMPORTANT NOTE: There is a small possibility that the Windows Hardware Device Manager may fail to locate the USB Serial Converter Device drivers. If USB Port detection problems occur, call Logicube Technical Support using the contact information on the last page of this manual for assistance.

Installing Accessories

The CellDEK TEK currently has two accessories that may require installation: (if these accessories were pre-installed at the factory skip this section)

Infra-red (IR) and Bluetooth module – This module enables the CellDEK TEK to capture handset information via IR and Bluetooth.

Internal battery – This rechargeable battery can run the CellDEK TEK up to ten hours on a single charge.

Please contact your reseller or Logicube if you need to purchase these accessories.

Installing the IR / Bluetooth Module

1. Use a Phillips-head screwdriver to remove the screws from the Expansion Port Cover Plate and remove the plate.
2. You will notice a socket underneath the plate for the IR / Bluetooth Module.
3. Plug the IR / Bluetooth Module into the socket as shown below.

Attaching IR / Bluetooth Module

Installing the Internal Battery

If you wish to purchase an internal battery for your CellDEK TEK, you will need to ship the CellDEK TEK device back to Logicube, Inc. for installation. The battery cannot be installed by the User.

Starting CellDEK TEK

Battery Status (Internal Battery)

NOTE: This section only applies if your CellDEK TEK has the internal battery.

Attach the DC power supply cable into the DC input socket and connect the other end to an AC wall outlet. If a battery is used, allow the battery to charge for approximately 24 hours before first use.

The CellDEK TEK main application screen displays the battery life of the unit. When the battery has depleted to around 5%, CellDEK TEK will alert the user to recharge the battery. When the battery level drops below this state, the CellDEK TEK application will close and will not restart correctly until the unit is charged. The image below shows that the CellDEK TEK battery is about 60% charged:

Battery Recharge State

Charging CellDEK TEK

NOTE: This section only applies if your CellDEK TEK has the optional internal battery.

The CellDEK TEK hardware may be charged with its AC power supply. The power supply can be plugged into 110 or 230V AC power.

Normal charge time = 3-4 Hours (fast charge) – A full charge will give up to 10 hours of usage.

Connecting CellDEK TEK to a PC

1. Power up the PC that has the CellDEK TEK software installed.
2. Power up the CellDEK TEK hardware.
3. Plug in the USB Cable between USB Port #2 on the CellDEK TEK and an open USB Port on the PC.

NOTE: USB Port #2 is next to the DC Power Socket on the CellDEK TEK.

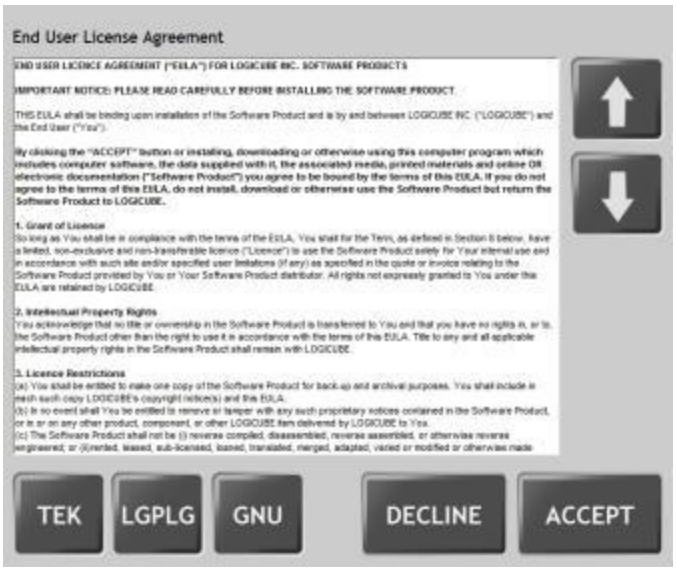
4. The CellDEK TEK will immediately be recognized as a USB device and the Phone Adapter Cables will flash red.
5. Launch the CellDEK TEK software application.

NOTE: After software ver. 1.10.0.1., the CellDEK TEK software will automatically launch once the hardware is connected.

Launching the CellDEK TEK Application

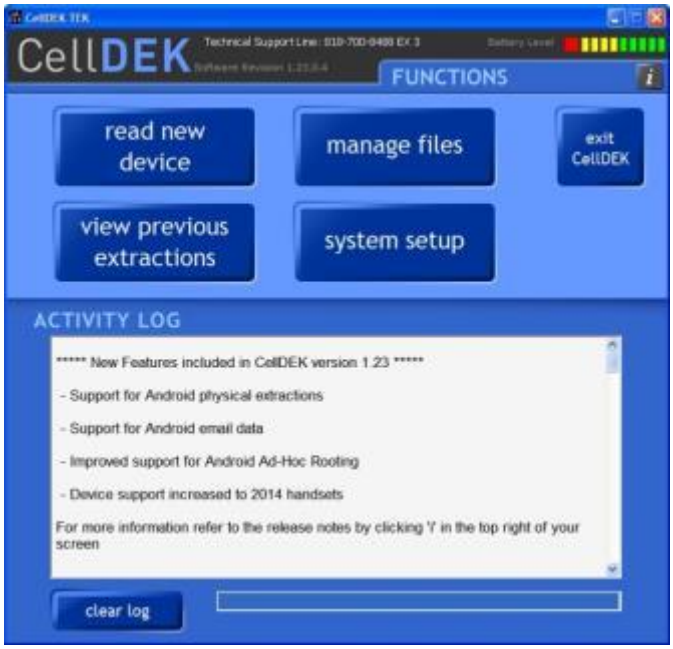
Follow the instructions below to launch the CellDEK TEK application:

1. After connecting the CellDEK TEK, the CellDEK TEK application will launch. The EULA (End User License Agreement) will appear.



End User License Agreement

2. After accepting the EULA, CellDEK TEK will load to the Main Application Menu.


CellDEK
FUNCTIONS
read new device
manage files
exit CellDEK
view previous extractions
system setup
ACTIVITY LOG
***** New Features included in CellDEK version 1.23 *****
- Support for Android physical extractions
- Support for Android email data
- Improved support for Android Ad-Hoc Rooting
- Device support increased to 2014 handsets
For more information refer to the release notes by clicking 'i' in the top right of your screen
clear log

CellDEK TEK Main Application Screen

Shutting Down CellDEK TEK

To shut down CellDEK TEK after use, be sure to close the CellDEK TEK application by clicking the ***exit CellDEK*** button on the PC before you shut down the CellDEK TEK hardware.

Important Notes

If the PC goes into Sleep or Hibernation Mode, or the laptop lid is closed and re-opened, the CellDEK TEK software will hang. You will need to close the application from the Task Manager in Windows. Once it is closed, re-start the application and continue working. DO NOT reboot the PC.

To set the Power Options in Windows XP to avoid going into sleep or hibernation, follow the steps below:

1. Right-click the ***Desktop*** and click ***Properties***.
2. Click the ***Screen Saver tab*** and in the Monitor Power section, click the ***Power*** button.
3. In the ***Power Schemes*** tab, set ***Turn off monitor***, ***Turn off hard disks***, ***System standby***, and ***System hibernates*** options to ***Never***.

Identifying a Target Device

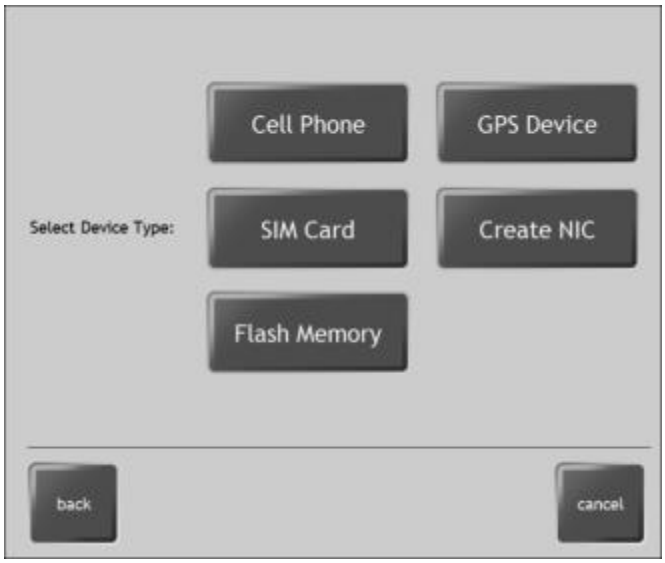
Target devices can be difficult to identify. Many show the manufacturer's name or logo, but not the model name or number. This information is usually displayed behind the battery of the target device. To view the label, the target device would be powered down and the battery removed.

On power-up a PIN or PUK number may be required to unlock the target device. This number can be obtained from the device's network service provider by authorized law enforcement personnel.

Identification of the target device is required to determine which connection methods are available (e.g. cable, infrared or Bluetooth) and for data cables, the specific cable connector.

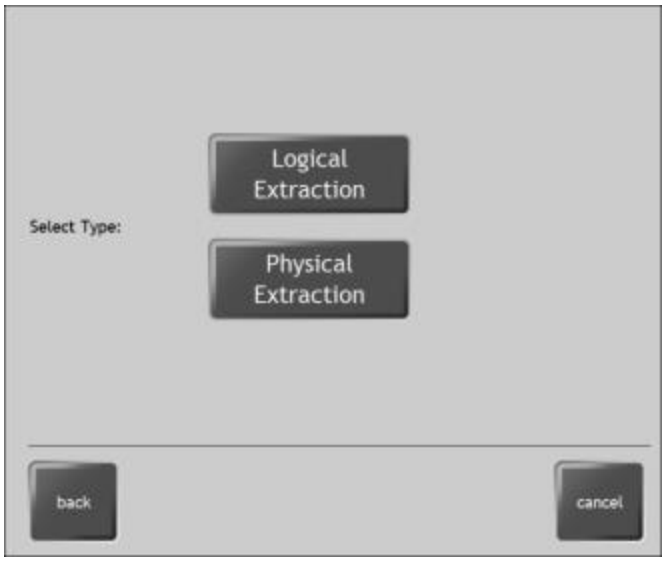
Attaching a Cellular Phone

1. Begin by clicking the ***Read New Device*** button on the Main Application Screen. The Device Type Selection screen will appear.



Device Type Selection

2. Click the ***Cell Phone*** button. The next screen prompts the user to choose either logical or physical extraction



Extraction type

3. Select Logical Extraction for most phones. Physical Extraction is available for Android devices and the Nokia 1100 only.

Physical Extraction

If Physical Extraction is selected, the following screen will appear:

O/S or Chipset screen

Select ***By O/S***. This is the only option that is selectable. 'By Chipset' is only available with the Logicube CellXtract-TNT. Visit http://www.logicube.com/shop/cellxtract-tnt/ for more information on the CellXtract-TNT

O/S Type

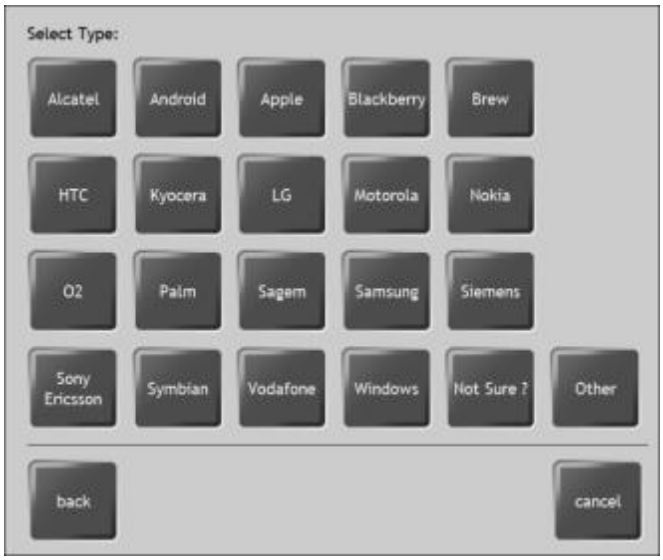
Select either Android O/S or Nokia 1100. If Android O/S is selected, follow the on-screen instructions on an Android O/S physical extraction.

Logical Extraction

If Logical Extraction is selected, the manufacturer list will appear. If the manufacturer is unknown, the search is carried out on all manufacturers.

For a given manufacturer, CellDEK helps to identify the target cellular phone as follows:

- Selection from a model list
- Selection from model images
- Selection from a “short list” of model images based on entered dimensions.

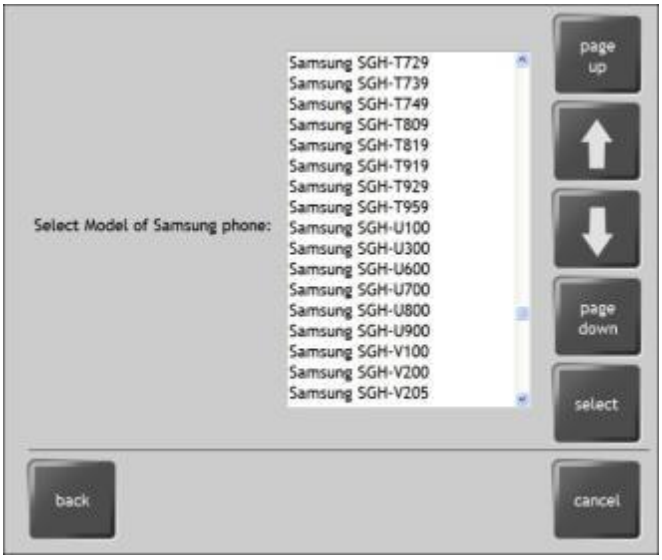


Cell Phone Manufacturer

Once the manufacturer is chosen, the Cell Phone Selection Screen will appear.

Cell Phone Selection

If the user knows the model of the cell phone, then the ***list models*** option should be selected. A list will come up of all known models.



Cell Phone Model List

Scroll down the list and select the model number of the cell phone.

If the model is unknown, images of all models for the chosen manufacturer are obtained by selecting ***View Models***.

Cell Phone Models

NOTE: Fully verified and supported handsets are indicated by green “check marks”. Handsets that are not supported but are expected to work are indicated by amber check marks. Unverified handsets have no check mark; so treat extractions from these handsets as a minimum data extraction.

NOTE: Some handsets can use a Network Isolation Card (NIC) card during capture. This feature is further explained in the ***Network Isolation (NIC) Card*** section later in this chapter.

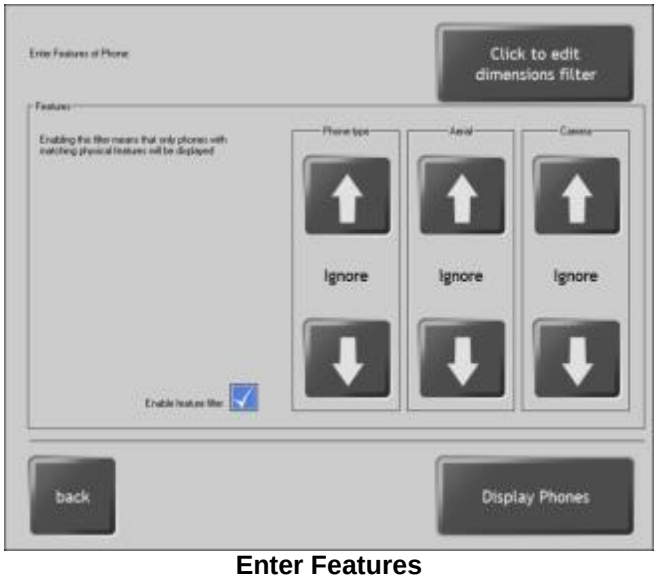
Scroll down the list and choose the image that looks like the target cell phone.

You may be faced with a large list of cell phones. To narrow down the search, click the **Back** button.

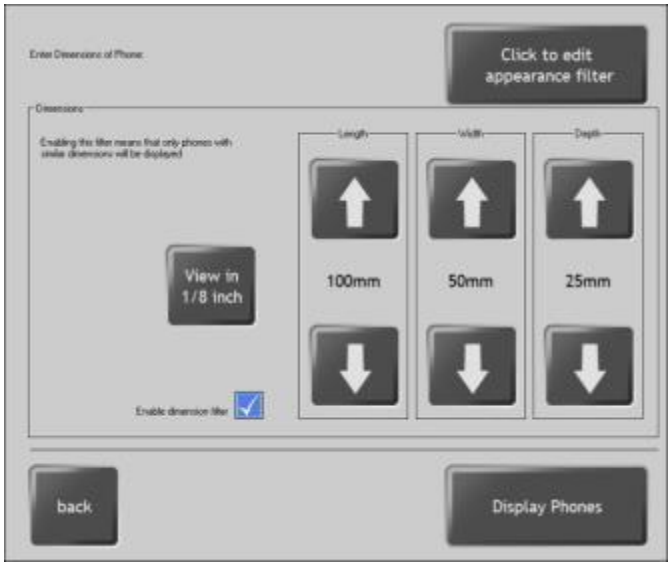
Select ***Refine List***. The user has the option to apply two filters. The user can choose to apply either or both of these filters.

The first will narrow down the images shown using physical features of the phone (e.g. Does the phone have an antenna or camera and what type of phone is it? Clamshell, swivel, slide or bar).

The second, or Input Dimensions filter is used to enter the physical dimensions of the target device (length, width, depth) using mm or inches. CellDEK TEK will display the models matching those dimensions or features (within a given tolerance and depending on which filter is used).



Enter Features



Enter Dimensions

NOTE: There is a measuring ruler printed on the CellDEK TEK in inches and mm.

NOTE: This screen will allow the user to enter the dimensions in mm, 1/8 inch or 1/16 inch increments.

Click the Up and Down Arrows to change each filter. If the handset does not have one of the features, such as a camera, set the filter to “Ignore”.

When finished, click the ***Display Phones*** button. CellDEK will display models matching those features.

Click the model number or image to highlight it, and then click the Select button. Refer to the “**Connection Options”** section later in this chapter.

Generic Extraction Module

If the “Other” Button is chosen on the Cellphone Extraction Screen, the Generic Extraction Module appears. This is used to extract from handsets that have not been identified or verified with CellDEK TEK. This includes handsets where data could not be obtained from the known manufacturers as well as from unknown manufacturers.

The time taken for data extraction can take over 30 minutes, depending on the amount of data.

The Generic Extraction Module only supports Bluetooth and Infrared connections

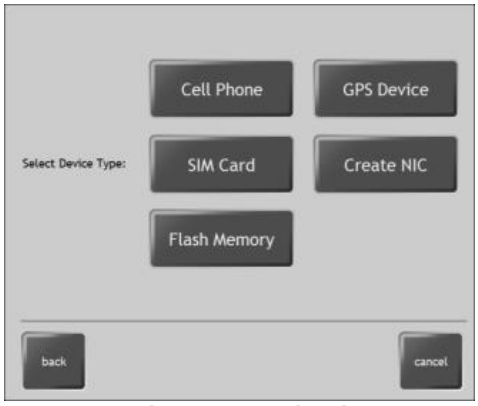
You have chosen 'other' as the device manufacturer.
If you know the manufacturer it is recommended you click 'back', select that manufacturer from the list, and choose a similar looking device.
If you continue, an extraction will be performed on the device using generic commands.
This feature is designed to enable you to attempt extractions on unvalidated and unrecognised handsets.
As the phone has not been identified successful data extraction can not be guaranteed.
Infra Red
Bluetooth
back
Run Extraction

Generic Extraction Module

NOTE: Users should be aware that data extracted with the Generic Extraction Module is NOT validated. It is recommended that any data extracted using this method is visually verified by the User to ensure that no data is missed or misrepresented.

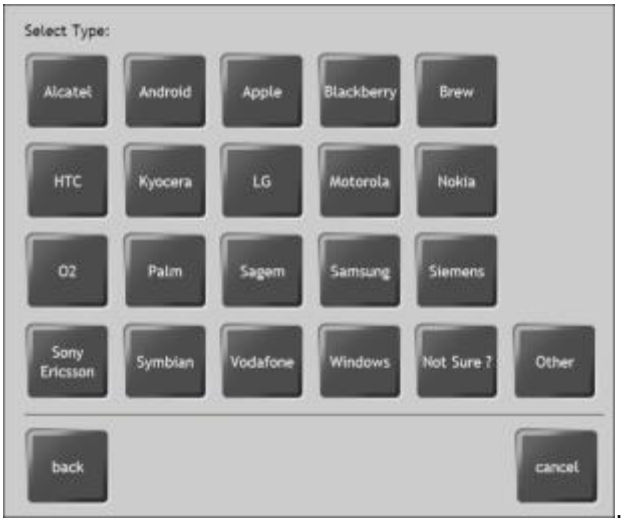
Attaching a PDA

1. Begin by clicking the ***Read New Device*** button on the Main Application Screen. The Device Type Selection screen will appear.



Device Type Selection

2. Click the ***Cell Phone*** button. The next screen prompts the user to choose the type of PDA. The choices are Windows Mobile, Blackberry, Palm OS, and Android.



Select PDA Type

3. Palm OS based PDA devices are supported by software version 1.10.0.0. and higher with the following caveats:

   - Extraction of SMS messages is currently not supported.
   - Extraction of user files is currently not supported.
   - Some Palm 680 handsets may not extract with CellDEK TEK even though it supports most Palm 680 handsets. Incompatible models include AT&T Palm 680.

   CellDEK TEK is able to collect the following information from Palm devices: Contact Details, Call Logs (if available), Calendars, Tasks, Notes and Palm Database (PDB) files. PDB files are where Palm OS keeps data stored in RAM. The data is kept in database format. These files can contain user data.

4. Windows-based PDA devices need to have Active Sync enabled before they can be set to Infrared mode. Please refer to the ***Connecting via Infrared*** section later in this chapter.

5. Blackberry devices can only connect via Cable. Please refer to the ***Cable Connection*** section later in this chapter.

NOTE: Blackberry devices that are password-protected will need to be unlocked before data can be extracted. Please refer to the ***Unlocking a Blackberry Device*** section later in this chapter.

6. Most PDAs will need to connect to CellDEK TEK via Bluetooth. Please refer to the ***Connecting via Bluetooth*** section later in this chapter.

7. Additional Cable Support for PDAs:

   A set of 5 new PDA cable tips and a USB cable are available from:

   http://www.gomadic.com/celldek.html

These tips will enable the User to connect to a number of PDAs that are not supported by the current CellDEK TEK cables. However, it must be noted that, although many of these PDAs are already supported by CellDEK TEK via Infrared, an extraction using a cable with provide a faster extraction. Appendix C lists the 150 PDAs that are supported by these cable tips.

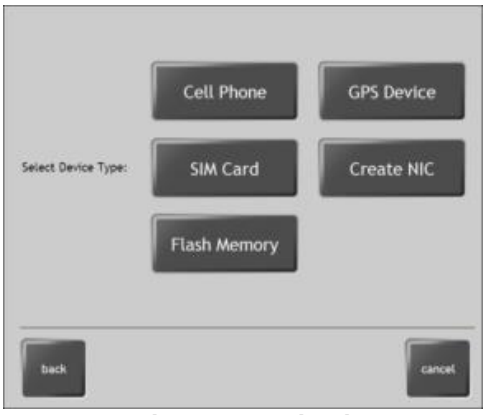
Each tip can be attached to the customized USB cable allowing a large range of tips to be connected to the same USB cable.

Attaching a SIM Card

NOTE: CellDEK supports, with software release 1.20.0.0, the ability to clone an existing SIM card. This and other features using the Network Isolation Card (NIC) are described in detail in the Network Isolation (NIC) Cards section called **"Network Isolation Cards (NIC) and SIM Card ID Cloning"**

SIM Card extraction supports both SIM and USIM cards.

1. Begin by clicking the ***Read New Device*** button on the Main Application Screen. The Device Type Selection screen will appear.



Device Type Selection

2. **Click** the ***SIM Card*** button.

3. Remove the SIM Card from the target cell phone. It is usually located under the battery.

Removing SIM card from cell phone

4. Slide the SIM card into the SIM card slot that is located on the CellDEK TEK next to USB Port #1. Align the SIM Card as shown below.

SIM Card in Slot

SIM PIN and PUK Codes

CellDEK TEK enables an investigator to unlock SIM cards via the PIN code and the PUK code, if they are known.

When CellDEK TEK is used to unlock a SIM card via the PIN code it does not relock the card afterwards.

When unlocking the SIM card via the PUK code CellDEK TEK will reset the PIN number to “0000”. To enable the feature to enter the PUK code, the PIN code needs to be entered incorrectly several times. The PIN-input screen displays the number of attempts remaining before the PUK code is required.

Dual SIM Extracted Data

Dual SIM handsets can contain two SIM cards; however the handsets are fully operational with only one SIM. Dual SIM handsets will have the following data:

- 2 IMEI Numbers
- Up to 2 IMSI Numbers
- Up to two lots of SIM Contacts
- Up to two lots of SIM Messages

These handsets make use of two SIM card slots and are referred to as Slot 1 and Slot 2. Either slot can be used if only one SIM card is present.

There are a number of ways the user can switch between SIM cards including a software menu option or a hardware button.

The handsets also have the functionality to set which SIM card is initially used on start-up irrespective of the Slot it is in. Therefore the SIM card in Slot 2 can be set to be used before that in Slot 1.

The SIM cards will be referred to as Primary SIM and Secondary SIM, where the Primary SIM is the one set to be used first.

The following data has been tested and can be extracted from these handsets:

IMEI – Each Dual SIM handset has two IMEI numbers, one for each SIM card Slot. The IMEI numbers are associated to the SIM card slots on the handset NOT the SIM Cards. The CellDEK TEK will only extract the IMEI number of Slot 1 regardless of how many SIM cards are present or which card is set as the Primary SIM.

IMSI – Each Dual SIM handset can have up to two IMSI numbers, one for each SIM card inserted. The CellDEK TEK will only extract the IMSI of the Primary SIM card, regardless of which slot it is inserted into.

SIM Contacts – Dual SIM handsets can store contacts to either SIM card. The CellDEK TEK can retrieve contacts from both SIM cards and identify which card they were stored on. Contacts stored on the Primary SIM will be labeled “[Primary SIM]”. Contacts stored on the Secondary SIM will be labeled “[Secondary SIM]”.

SMS Messages – Dual SIM handsets can store SMS messages on either SIM card. The CellDEK TEK will only extract messages stored on the Primary SIM card, regardless of which slot it is inserted into. CellDEK will extract all handset SMS messages but cannot determine which SIM card they were sent to/from, this can be determined by viewing the SMS on the handset.

Call Logs – Dual SIM handsets store all call logs on the handset and can be dialed or received from either SIM card. The CellDEK TEK will extract all call log entries but cannot determine which SIM card was used to dial or receive the call. This can be determined by viewing the call logs on the handset. Any LDN’s stored on the SIM cards will not be extracted, a separate SIM card extraction will obtain this data.

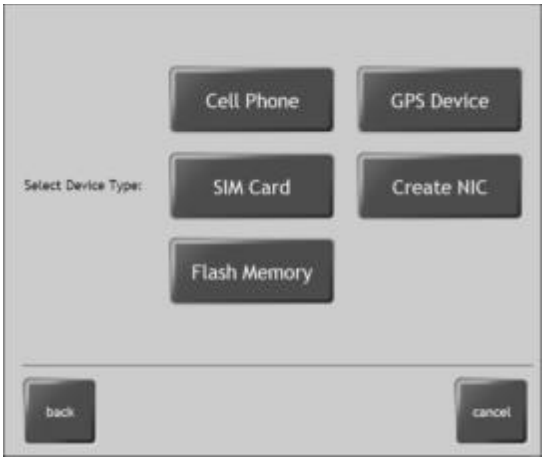
NIC Card Functionality – Where NIC card support is verified, a NIC card will need to be created for each SIM card used in a Dual SIM handset. The NIC card will need to be returned to the same Slot from which the SIM card taken from. Placing a NIC card in the wrong slot will result in a loss of data.

NOTE: A separate extraction should always be performed on all SIM cards.

Attaching a Memory Flash Card

The CellDEK TEK is able to capture Memory Flash Cards through USB Port #1 and the use of an adapter (sold separately). When capturing, the CellDEK TEK software application does not allow data to be written to the Memory Card Reader slots.

1. Begin by clicking the ***Read New Device*** button on the Main Application Screen. The Device Type Selection screen will appear.



Device Type Selection

2. Click the ***Flash Memory*** button. The next screen will prompt the user to inset the Flash Memory card into USB Port #1
3. Insert the memory card into a USB adapter (not included) and insert the adapter into USB Port #1.

Imaging Flash Media

After capturing data, CellDEK TEK will ask the user if it should perform a complete image capture of the flash memory card. If the user chooses to do this, CellDEK TEK will run this procedure:

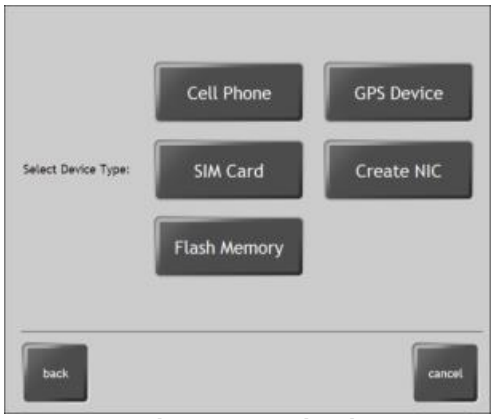
- CellDEK TEK will make a sector-by-sector copy of the entire flash media drive.
- The copy will be stored as an image file in the "_resource" folder of the extraction directory.

- CellDEK TEK will then scan the image file for the following types of .jpeg files:
    - Extant jpeg: Normal, readable .jpeg files.
    - Deleted jpeg
    - Embedded jpeg: .jpeg files embedded in emails or other files.
- Any found .jpeg files will be displayed by CellDEK TEK in the Extended Data screen.
- The image file can be copied to a thumb drive and investigated further with hex-editing or forensic software.

  NOTE: The CellDEK TEK cannot distinguish between Extant, deleted or embedded JPEG files. The image file should be further investigated to determine the status of any found files, and whether similar files exist in other formats.

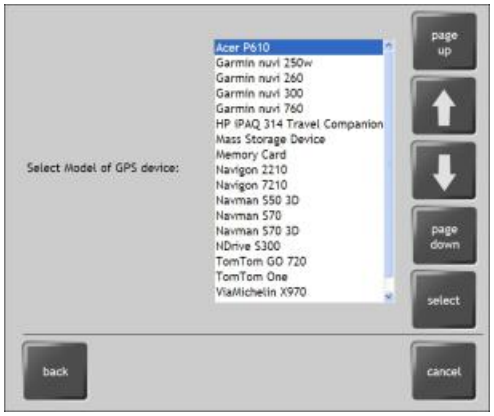
Attaching a GPS Device

1. Begin by clicking the ***Read New Device*** button on the Main Application Screen. The Device Type Selection screen will appear.



Device Type Selection

2. Click the ***GPS Device*** button. The next screen prompts the user to choose the type of GPS.



Select GPS Type

3. If a TomTom GO 720 is to be selected, choose “TomTom GO 720”. After capture, you will get an opportunity to capture the memory card separately.

NOTE: The following TomTom devices are supported: TomTom GO 720 and ONE V3. Other TomTom devices are not supported.

4. If present, remove the memory card from the GPS device. This will be captured later.

WARNING: ALWAYS remove the Memory Card from a TomTom device prior to capture.

NOTE: TomTom can store the same information in the device and on the Memory Card. For that reason, the device and card may contain different sets of the same type of data (i.e. application info, favorite destinations, etc.)

5. Connect Cable 9 to the GPS Device and follow the prompts to extract data. The following information can be extracted from the supported GPS Devices:

Device information
Manufacturer, Model, Serial Number

Owner information
Owner’s Name, Owner’s Street, Owner’s Town, Owner’s City

GPS location information
‘Home’ address with GPS coordinate, ‘Favorite’ addresses with GPS coordinates, ‘Destination’ addresses with GPS coordinates, ‘Recent’ addresses with GPS coordinate, ‘Miscellaneous’ addresses with GPS coordinates

Telecommunication information *
Telephone contact information stored on TomTom, Telephone numbers called via the TomTom, Telephone numbers of calls received via the TomTom, SMS messages received via the TomTom, SMS messages sent via the TomTom

Files *
MP3 files, JPEG files

*Only on supported devices.

The following information can be extracted from Garmin devices: manufacturer, model, serial number, “favorite” addresses with GPS coordinates.

After the GPS Device is extracted, click “Memory Card” on the screen that appears. Follow the directions for Connecting a Memory Flash Card earlier in this chapter.

The following information can be extracted from HP satellite navigation devices

GPS location information
‘Favorite’ addresses with GPS coordinates,

Route ‘Waypoint’ addresses with GPS coordinates.

‘Search History’ addresses with GPS coordinates.

Telecommunication information
Contact information.

Call Registers.

Files

User files can also be retrieved from the device by performing a separate Flash Media extraction.

IMPORTANT NOTE: CellDEK TEK can only support Memory Cards up to 1GB in size.

Generic GPS Extraction

CellDEK TEK can search certain devices for GPS data generated by any of the following GPS Software:

- CoPilot 6
- Garmin
- Navman Smart ST
- NavNGo
- NDrive
- TomTom

The data files generated by this software can be stored on devices without any GPS software installed. This data can still be extracted using CellDEK TEK.

Devices which GPS Data can be extracted from are:

- Sat-Nav GPS Devices
- Windows Mobile Devices
- Flash Media Cards
- Mass Storage Devices

NOTE: Devices can be used to store data generated from other devices. Therefore, care must be taken when linking data to a specific device.

The following GPS Data can be extracted:

- 'Favourite Locations' - These are a list of addresses and/or coordinates which a user has chosen to store on the device. They can contain Home and Work locations.
- 'Recent Destinations' – These are a list of previous destinations the owner has selected to navigate to.
- 'Route Waypoint Data' – These are a list of addresses and/or coordinates which form set locations along a route that the user has created.
- 'History' - This is a list of addresses and/or coordinates that the owner has previously searched for or viewed. This list may also contain Favourite and Route Waypoint Locations. This list differs from Recent Destinations in that the owner may not have selected to navigate to the location.

NOTE: The presence of any of the above data on a device does not indicate that the owner has been to that location. Only tha the owner chose to view and/or save that location on the device.

CellDEK TEK will also extract Telecommunications data from some Sat-Nav GPS Devices.

The following Telecommunications data can be extracted:

- Contact information
- Telephone numbers called via the GPS Device
- Telephone numbers of calls received via the GPS Device
- SMS sent and received via the GPS device

This information is extracted from the data files created by the above software only. Mobile communication devices may have a separate store for this information.

NOTE: It is recommended that a separate PDA extraction be performed on all WinMobile devices to obtain Telecommunication Data.

GPS Track Logs

CellDEK TEK now extracts GPS track logs from devices manufactured by:

- Garmin
- Navman
- HP

Track logs record the GPS coordinates of the device every 1-2 seconds giving an accurate description of where the device has been and when.

The CellDEK TEK report shows only the start point of each stored track log, as each track can potentially store thousands of points.

Track log data is best viewed by importing the GPSData.gpx into Google Earth.
NOTE: Some devices start logging as soon as they are turned on, however other devices require the user to initiate logging to record track log data.

Opening GPSData.gpx Output Files in Google Earth

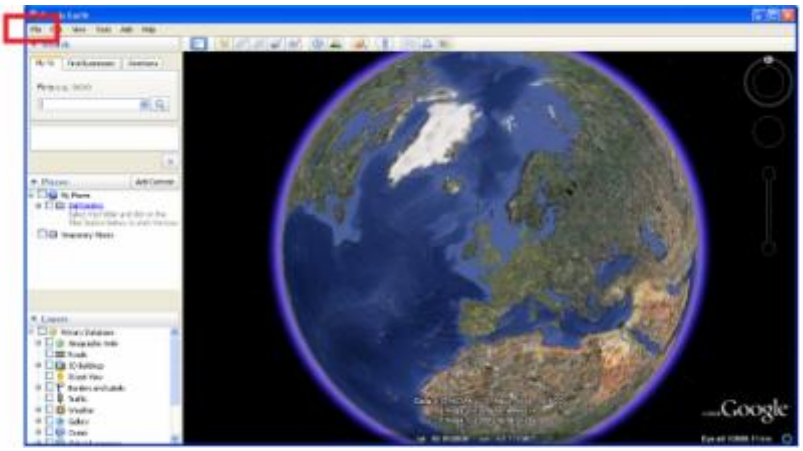
CellDEK TEK generates an additional data file when extracting GPS Data. This file contains GPS data and can be imported into Google Earth to display the data.

The data file GPSData.gpx is created within the extraction folder automatically when a GPS extraction is performed.

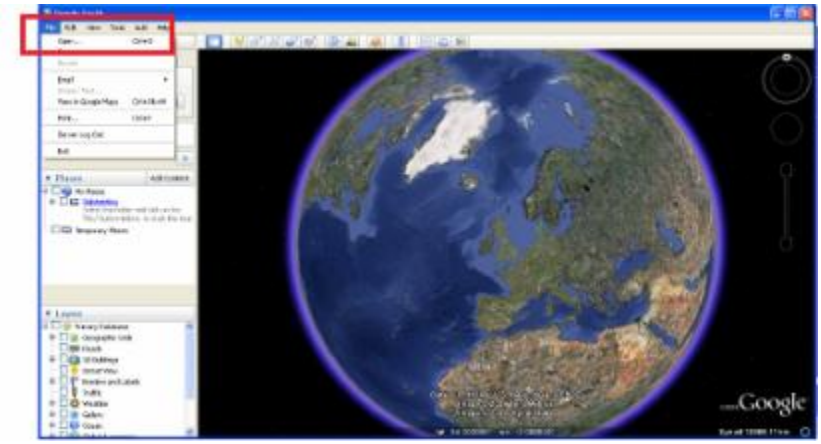
The data file stores all waypoints, routes and track log data in a format which can be used by Google Earth to display all of the GPS data in the report.

NOTE: Google Earth 5.0 will need to be installed on a PC to view the GPSData.gpx file. This can be downloaded from: http://earth.google.com

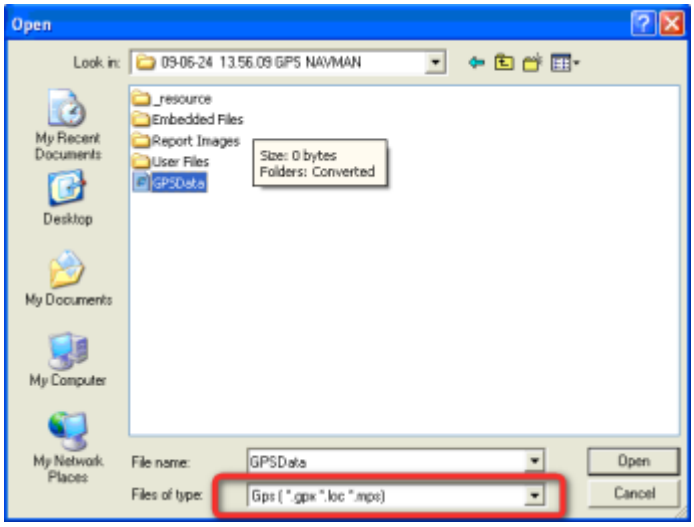
Open Google Earth and click the ***File menu***.



Then select ***Open***.



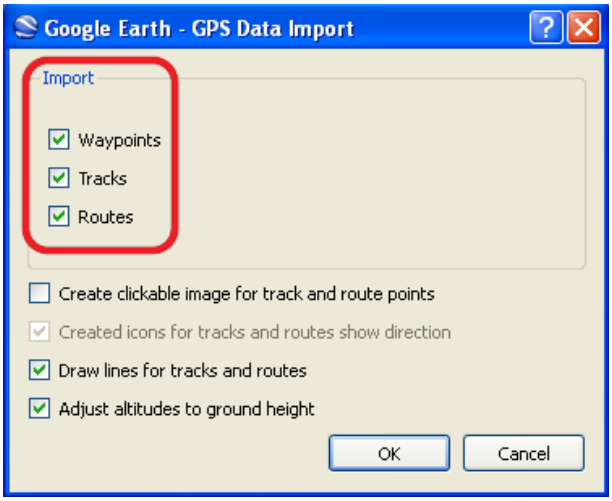
Navigate to the location where the extracted data files are stored.



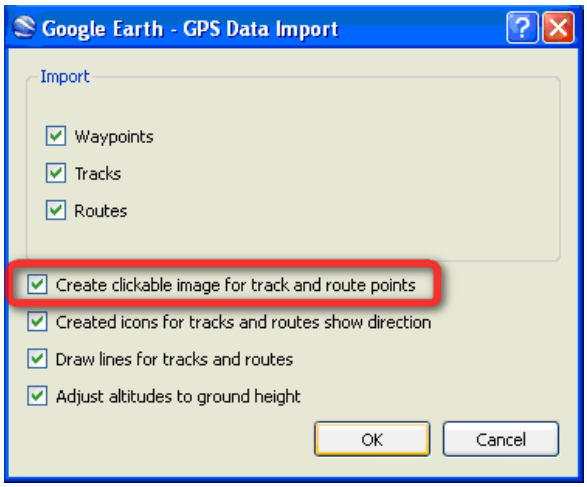
In the Files of type drop down box select ***Gps (*.gpx *.loc *.mps)*** and then select the GPSData file and click open.

Alternatively you can drag the GPSData.gpx file into Google Earth

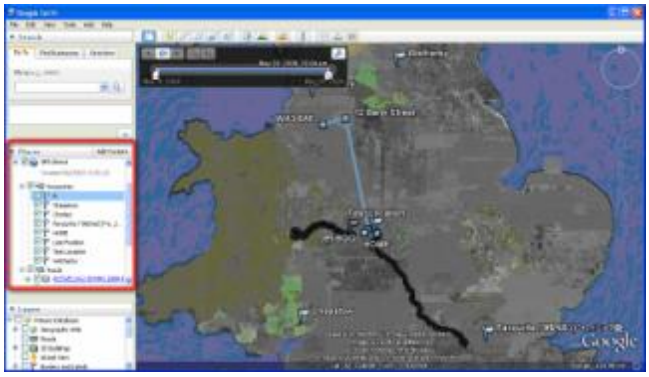
The GPS Data Import window appears allowing you to choose what types of data you want to import.



To display all GPS fixes along a saved track log make sure you check the Create clickable image for track and route points.



The data is then displayed on the map and can be selected using the Places navigation panel.



A full Google Earth User Guide can be viewed at:
http://earth.google.com/intl/en/userguide/v5/

NOTE: Google Earth imports GPS coordinates, Time and Data, Altitude and Waypoint Name data only. Any other information displayed in Google Earth has been inferred by the Google Earth software.

Geo-Tag Data from Images

CellDEK TEK will now display Geo-Tag data for images that have been captured using a device with a GPS receiver. A Geo-Tag consists of latitude and longitude coordinates and adds geographical identification to an image.

Geo-Tag information is automatically extracted and appears in the metadata section associated with an image.

Geo-Tag

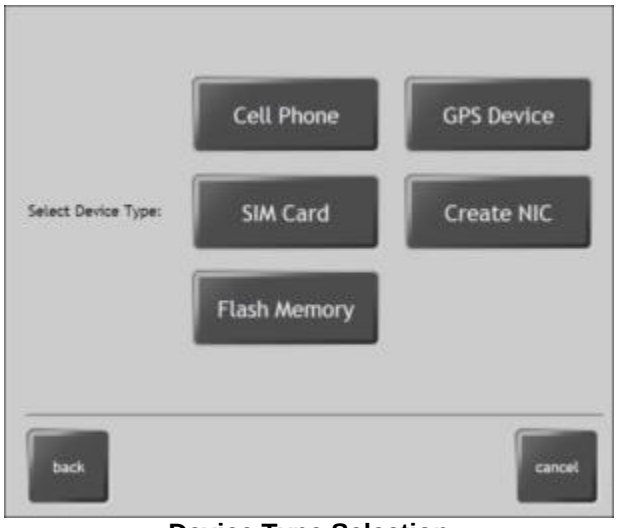
NOTE: Geo-Tagging is only displayed if the image has been captured using a device that supports geo-tagging.

Attaching an Apple iPhone

CellDEK TEK software ver. 1.12.0.0. and newer is able to capture data from Apple devices such as the iPhone and iPod Touch.

IMPORTANT NOTE: iTunes must be installed on the CellDEK TEK before it can support Apple devices**.** The CellDEK TEK software installation will install or update the iTunes as needed. Do not update iTunes manually.

Begin by clickping the “Read New Device” button on the Main Application Screen. The Device Type Selection screen will appear.



Device Type Selection

Click the ***Cell Phone*** button then select ***Apple*** from the list of handset manufacturers.

CellDEK will illuminate the correct data cable with a green light. A prompt will appear on the screen asking the user to attach the cable to the Phone Cable Jack.

NOTE: DO NOT attach the Apple device until prompted by CellDEK.

Remove the cable from the rack and insert it into the Phone Cable Jack. The cable's LED will turn red. Click ***OK*** on the screen.

The cable's LED will turn green and a new prompt will appear. Attach the target cell phone at this time. Click the ***OK*** button once the phone is connected.

Connection Options

Once the correct target device has been chosen, the next screen will show the different connection options that are available. The three different methods of connection are **Cable**, **Infrared** or **Bluetooth**.

NOTE: Infrared and Bluetooth connections are only possible with the optional IR / Bluetooth Module.

The Connectivity Option screen also shows the type of data that can be extracted from the target device. This information is shown as a series of icons that are listed at the end of this chapter. Any data types that cannot be extracted have a red "X" through the icon.

The Connectivity option Screen will also alert the user if the target device supports memory cards.

NOTE: The Connectivity Option screen will show items that can be downloaded from the SIM card if the chosen handset is a GSM phone.

Connectivity Option Screen

Helper Icons

The Connectivity Option Screen also has three “Helper Icons” that indicate the location of the handsets On/Off switch. Cable Port and IR Port (if available).

Cable Connection

1. Select “Cable” from the Connectivity Option Screen and click the “Run Extraction” button. CellDEK TEK will access the Cable Adapters that are stored in the Adapter Rack.
2. CellDEK TEK will illuminate the correct data cable with a green light. A prompt will appear on the screen asking the user to attach the cable to the Phone Cable Jack.

NOTE: DO NOT attach the cell phone until prompted by the CellDEK TEK software.

3. Remove the cable from the rack and insert it into the Phone Cable Jack. The cable’s LED will turn red. Click the *OK* button.
4. The cable’s LED will turn green and a new prompt will appear. Attach the target cell phone at this time. Click the *OK* button once the phone is connected.

Data Cable Connected to Device

On completion of data extraction, the data cable must be replaced into any of the twenty storage sockets. It does not matter which socket the cable is attached to.

Bluetooth Connection

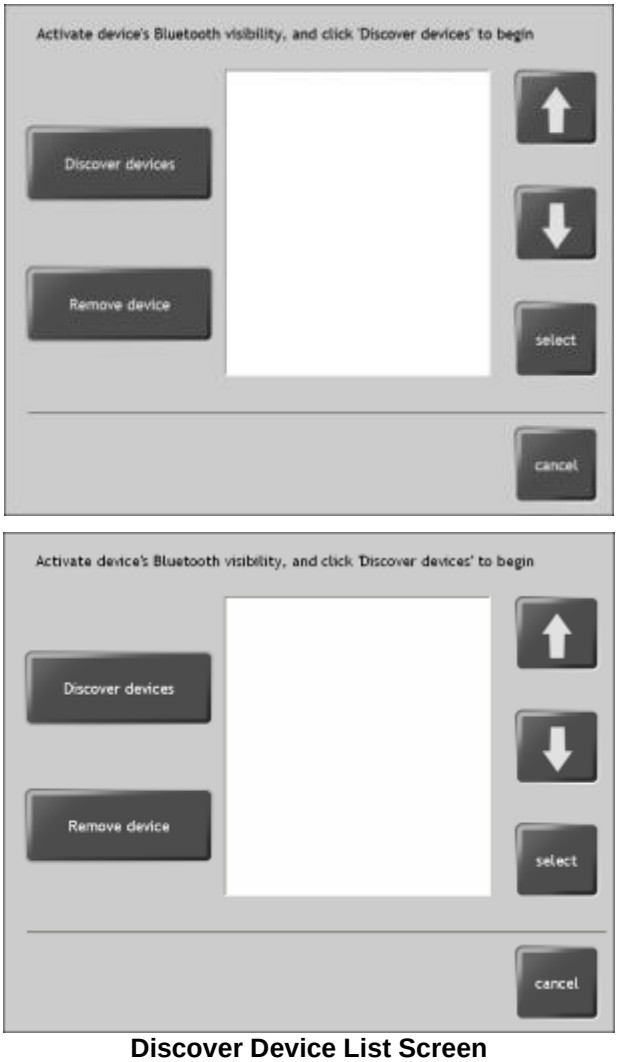
Many cell phones have Bluetooth capability, which can be used to transfer data from the target device. CellDEK TEK’s range is 60 feet for connectivity.

Bluetooth extraction is a wireless communication link. On initiation, CellDEK TEK will produce a list of all Bluetooth enabled devices. Caution is therefore required when selecting the correct device name list, particularly if two devices in the area have the same name. Any connection will require confirmation/acceptance on the handset in question before the extraction process can commence. This prevents accidental connection to other devices.

Bluetooth capability can only extract data once the handset has been 'paired' with the CellDEK TEK unit. Pairing is when you enter a 4-digit code into the phone/handset to accept the connection. If the 4-digit code is incorrectly entered you cannot access any data from the device. Data can only be extracted covertly over Bluetooth if the device is PAIRED FIRST, before returning it to the target owner. The data could then be extracted remotely without the target owner's knowledge (depending on phone type).

Connecting to a Cell Phone via Bluetooth

1. Set the target device to Bluetooth mode. Select "Bluetooth" from the Connectivity Option Screen and press the "Run Extraction" button. If the device is a recognized cell phone, CellDEK TEK will display instructions on how to set the handset to Bluetooth mode.
2. A prompt will appear asking the User to "Click Discover Devices to Begin".



Discover Device List Screen

3. Once the target device has Bluetooth enabled, click the “Discover Devices” button.
4. A Bluetooth Activity screen will appear as CellDEK TEK searches for Bluetooth devices.
5. After 20-30 seconds, CellDEK TEK will display a list of found devices. Select the name of the target device and click the Select button.

NOTE: If the target device does not appear in the list, click the “Discover Devices” button again. It may take more than one attempt to access the device.

6. Once connected, the Target device will prompt the user to allow connection. When requested, enter the 4-digit code as **1234** on the target device. Once the pairing process is complete, data extraction will commence automatically.

NOTE: The target device screen must be monitored during this stage of the process. Some target devices require confirmation at various stages to continue through the extraction process.

7. After data extraction, a reminder will appear for the user to remove the CellDEK TEK from the Device’s Bluetooth History list.

Infrared (IR) Connection

PDA Connected via Infrared

Some Cell Phones and PDAs have a built-in infrared (IR) port, which can be used to transfer data from the target device.

1. Select “Infrared” from the Connectivity Option Screen and press the “Run Extraction” button.
2. A prompt will appear on the screen asking the user to set the target device to infrared. If the device is a recognized cell phone, CellDEK TEK will display instructions to set it to infrared mode.

Instructions for Infrared Mode

3. Once the device is in infrared mode, place it next to the Infrared emitter on the IR / Bluetooth Module. Make sure that the device's IR port is facing the emitter.
4. After 5 – 20 seconds, the CellDEK TEK will emit a tone to indicate that the IR connection has been made.

Custom Extraction

Pressing "Custom Extraction" instead of the "Run Extraction" on the Connectivity Option screen allows the user to decide what data is downloaded from a handset. This is handy when the user only needs the call log from a handset, for example.

Custom Extraction Screen

Click the radio buttons to download or skip different data types. Press "OK" when finished.

Any data not read will appear in the capture report as "User chose not to extract _____".

NOTE: "Extract Files" refers to all image, movie, sound and other files found in the Extended Data portion of a capture.

SIM Card connection

SIM Cards do not require any special Connection procedures. Once the card is connected, data will begin to extract as outlined in **Chapter 3 – Capturing Data**.

Connectivity Icons

The Connectivity Option Screen uses distinct icons to show what data can be pulled from supported phones with different connection options.

ICON	DESCRIPTION	ICON	DESCRIPTION
	IMEI Number		Sent SMS Message
	Time		Saved SMS Message
	Date		Calendar Entries
	Contact List (ADN)		Tasks
	Dialed Calls		Audio Files
	Received Calls		Image Files
	Missed Calls		Video Files
	Read SMS Message		Other Files
	Unread SMS Message		**NOTE:** Presence of this symbol next to the icon denotes that the data is extracted with relevant timestamps.
	Multimedia Message – SMS messages that can include attachments.		Other Files

Connectivity Icon Table

Note: Some phones will display the Other Files folder icon on the CellDEK TEK software within the Connectivity Options Screen. These phones can have files such as Images, Audio and Video extracted. Extraction capability for these phones is limited by the models architecture and feature set.

Other connectivity Icons

The Connectivity Option Screen also tells whether a handset supports extraction through a NIC card or if the handset can be accessed without its SIM card.

Network Isolation Cards (NIC) and SIM Card ID Cloning

CellDEK TEK has the ability to isolate many handsets from the mobile network by using a Network Isolation Card (NIC). NIC cards are placed in the SIM card slot of the handset.

There are three categories of support for this feature.

- Handsets that support this feature are displayed with a blue NIC icon.
- Handsets that do not support this feature are displayed with a blue NIC icon crossed with a red line.
- Handsets that are untested for this feature are displayed with no NIC icon.

Phone Model Selection Screen

Connectivity Option Screen

A NIC card is included with each CellDEK TEK. Additional Network Isolation Cards can be purchased from your CellDEK TEK supplier.

Any CellDEK TEK unit running software ver. 1.7.0.0 or later is able to support Network Isolation Cards (NIC). These cards replace the handsets SIM card and isolate the handset from its network while allowing a normal examination to take place.

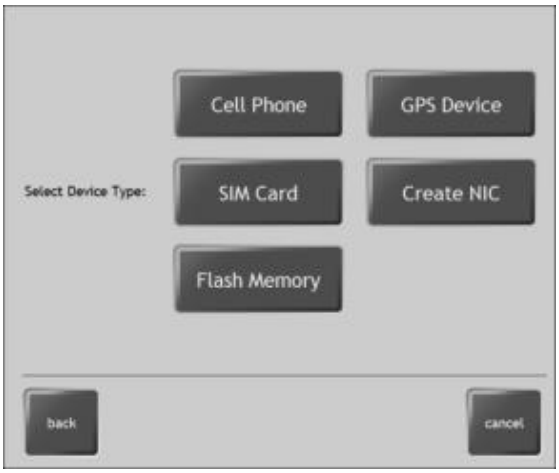
CellDEK TEK ver. 1.20.0 and higher include the following features:

- Create from Existing SIM
- Manually enter NIC data
- Create Test NIC

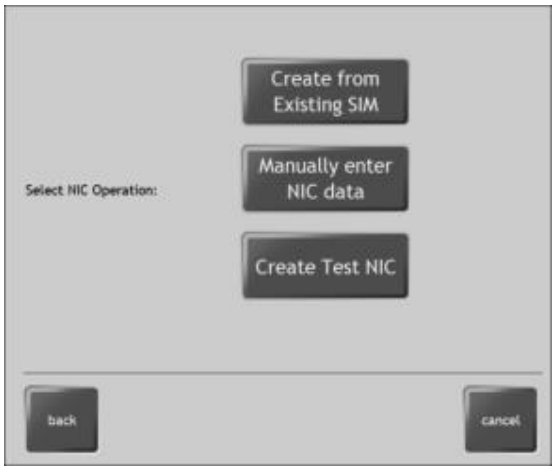
An explanation and summary for each method is included in the step-by-step instructions below.

Sim Card ID Cloning Step-by-step

To access the NIC menu, click ***Read New Device*** from the main menu. The device type selection screen will appear.



Click ***Create NIC***. The NIC Operation screen will appear.



Create from Existing SIM

CellDEK TEK will clone the original SIM card ID. It will copy the ICCID and IMSI from original SIM card onto a NIC (SIM ID Card). The ICCID and IMSI on NIC must be identical to original SIM. NIC (SIM ID Card) ICCID and IMSI values can be checked by performing a SIM Card Extraction of NIC.

This method is useful when the original SIM card is available.

1. From the NIC Operation screen, click ***Create from Existing SIM***.
2. Place the SIM card into the SIM card slot. Click ***OK***.

3. CellDEK TEK will read the inserted SIM card. After this process, the following screen will appear:

4. Remove the SIM card from the slot and place the NIC (SIM ID Card) into the same slot. then click ***OK***. CellDEK TEK will now create the NIC (SIM ID Card). When this process finishes, the screen below will appear. Click ***OK***.

Successfully created NIC
This NIC has been designed for network isolation purposes only. It is not an exact copy of the original SIM and only stores a subset of SIM data
OK

5. CellDEK TEK will prompt whether a phone is compatible with Network Isolation Cards. Selecting ***No*** will finish the process and bring the user back to the CellDEK TEK main screen. Selecting ***YES*** to the screen below will prompt the user to identify the phone to be used with the NIC (SIM ID Card). After selecting the phone, one of the following two screens will appear. Click ***OK*** to finish he process and go back to the CellDEK main screen.

Manually enter NIC data

CellDEK TEK will create a NIC (SIM ID Card) by writing valid ICCID and IMSI values entered by the user.

This method is useful when the original SIM card is not available. To find out the correct ICCID or IMSI numbers, please contact the handset's network provider.

Valid ICCID numbers are 19 or 20 digits long and include the following:

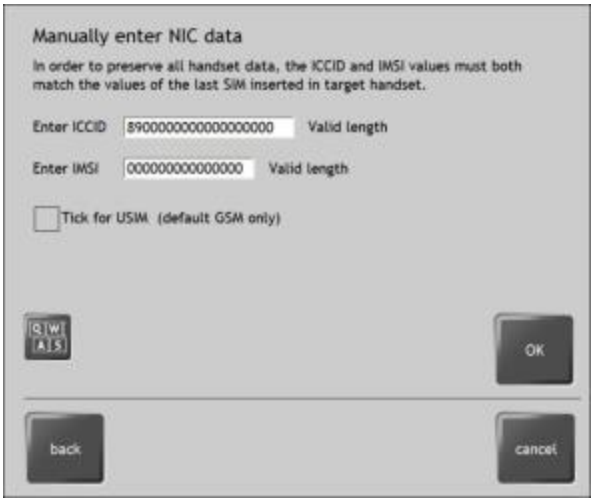
- The first 2 digits represent the Major industry identifier (89 for telecommunications)
- 1-3 digit Country Code
- 1-4 digit Issuer ID
- Variable length individual Account ID

Valid IMSI numbers are 15 digits long and include the following:

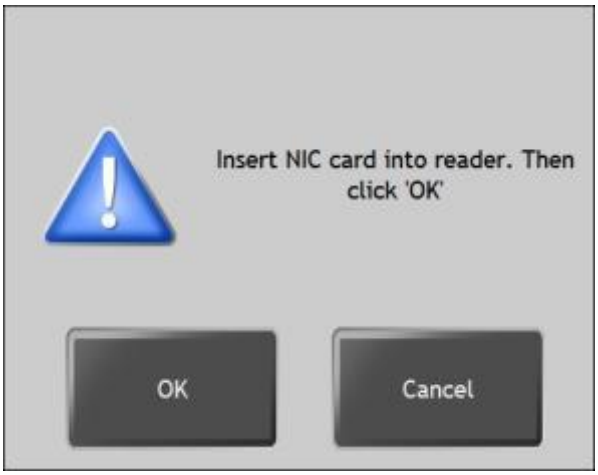
- The first 3 digits represent the Mobile Country Code (MCC).
- The next 2 or 3 digits represent the Mobile Network Code (MNC).
- The next digits represent the mobile station identification number. Normally there will be 10 digits but would be fewer in the case of a 3-digit MNC or if national regulations indicate that the total length of the IMSI should be less than 15 digits.

NIC (SIM ID Card) ICCID and IMSI values can be checked by performing a SIM Card Extraction of NIC (SIM ID Card).

1. From the NIC Operation screen, click ***Manually enter NIC data***.
2. Use the virtual keyboard (or an attached USB keyboard) and enter the ICCID and IMSI values. When finished, click ***OK***.


Manually enter NIC data
In order to preserve all handset data, the ICCID and IMSI values must both match the values of the last SIM inserted in target handset.
Enter ICCID
8900000000000000000
Valid length
Enter IMSI
000000000000000
Valid length
Tick for USIM (default GSM only)
OK
back
cancel

3. Place the NIC (SIM ID Card) into the SIM card slot. Click ***OK***.



4. CellDEK TEK will now create the NIC (SIM ID Card). When this process finishes, the screen below will appear. Click ***OK***.

?
Successfully created NIC
This NIC has been designed for network isolation purposes only. It is not an exact copy of the original SIM and only stores a subset of SIM data
OK

5. CellDEK TEK will prompt whether a phone is compatible with Network Isolation Cards. Selecting ***No*** will finish the process and bring the user back to the CellDEK TEK main screen. Selecting ***YES*** to the screen below will prompt the user to identify the phone to be used with the NIC (SIM ID Card). After selecting the phone, one of the following two screens will appear. Click ***OK*** to finish he process and go back to the CellDEK TEK main screen.

Create a test NIC

CellDEK TEK will attempt to write default ICCID and IMSI onto a NIC. The default values are:

ICCID = 894900050701001429

IMSI = 001010123456789

A warning will appear after creating a test NIC:

"A Test NIC can be used to access handset data but should only be used as a last resort. Inserting into a handset may cause data to be lost or changed"

NIC ICCID and IMSI values can be checked by performing a SIM Card Extraction of NIC.

This method should be used as a last resort if none of the previous methods work. It is important to understand that incorrect ICCID or IMSI data may cause data on the handset to be lost or changed.

1. From the NIC Operation screen, Click ***Create Test NIC***.
2. Place the NIC into the SIM card slot. Click ***OK***

3. CellDEK TEK will now create the NIC (SIM ID Card). When this process finishes, the screen below will appear. Click ***OK*** to finish the process.

?
Successfully created NIC
A Test NIC can be used to access handset data but should only be used as a last resort. Inserting into a handset may cause data to be lost or changed
OK

Extraction without a SIM Card

CellDEK TEK can extract data from many handsets with the SIM card removed. If a handset's SIM is PIN locked this feature allows an extraction of the handset with the SIM removed. If supported, this feature is displayed in the Connectivity Screen as seen below:

Connectivity Option Screen showing SIMless extraction support.

Capturing Nokia Handsets - Adapters

Certain Nokia Handsets require special adapters in order to extract data. This section deals with two major topics: Installing the CA-42 Cable and using Nokia Flash adapters to connect to a handset.

Nokia CA-42 Cable Installation

The Nokia CA-42 Cable is an optional cable for CellDEK TEK that is different than the other cables. It resides in the storage compartment and not in the connector rack. As such it needs to be installed on the CellDEK TEK prior to use. To install the cable:

1. Boot CellDEK TEK to the Main Application Screen.
2. Attach the CA-42 Cable to USB port #2 on CellDEK TEK. Wait for the USB connection tone. (It may take over a minute for the tone to be heard).
3. Remove the cable. It is now ready to be used for extractions.

Nokia Flash Adapters

The CellDEK TEK is able to connect to certain Nokia handsets through the use of specialized adapters from Nokia. Table 2 below lists nine different adapters and the handsets that they fit:

Adaptor Label Reference	Supported Models
CD-NOK1 (1100)	1100 1101 2300 1110 1110i 1112
CD-NOK2 (EZFL)	1600 2310 2610 2626 6030 6060
CD-NOK3 (8210)	2100 8210
CD-NOK4 (3300)	3300
CD-NOK5 (3510i)	3510i 6010
CD-NOK6 (2650)	2650 2652

	5110
	6110
	6130
CD-NOK7 (6110)	6150
	6210
	6360
	7110
CD-NOK8 (3210)	3210
	3310
CD-NOK9 (3310)	3410
	3330

Nokia Flash Adapters

Attaching Nokia Flash Adapters

Follow these steps to attach a flash adapter to a Nokia handset:

NOTE: This demonstration uses a Nokia 1100, but the procedure is similar for other models.

Nokia 1100 Handset

1. Power the handset off.
2. Remove the back cover and the battery. Leave the SIM card in place.

Handset Battery Removed

NOTE: The time and date on the handset may be changed when the battery is removed.

3. Locate the data pins in the battery compartment of the handset. You may need to remove a small, black plastic cover.

Data Pins

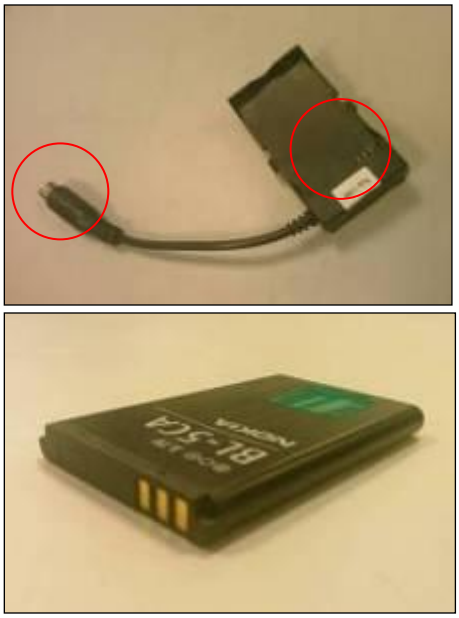
4. Place the appropriate adapter inside the handset so that the adapter's data pins touch the pins of the handset.

Adapter Data Pins

5. Insert the lower part of the adapter first, then snap the upper part of the adapter into place.

Adapter in Handset

6. Insert the handset's battery into the adapter by aligning the battery pins. Push the battery in and down until it snaps into place.



Battery Pins on Adapter and Battery (circled)

7. When properly assembled, the handset should look like the picture below:

Installed Flash Adapter

8. Power the handset on, and perform the data extraction with Cable 25 as outlined in the "Cable Connection" section earlier in this chapter.

Connected to Cable 25

Other Handsets That Require Adapters

The following Handsets also require special adapters. These adapters plug into Cable 25 and are sold separately.

SAGEM – myC-2

This handset uses the CD-SAG 1 adapter to connect to Cable 25.

SAGEM – 9xx Models

This handset uses the CD-SAG 2 adapter to connect to Cable 25.

NOTE: Cable 25 does not connect directly to any handsets.

Please contact your distributor or Logicube if you wish to purchase any of these adapters.

Case Details

Once the target device has been successfully connected, the Case Details input form appears:

Case Details Input Form

1. If the report will be filled out later, click the “Later” button to continue on to data extraction.
2. If the report is to be filled out now, click the line that needs to be filled out and use the computers keyboard to enter information in the data fields.
3. Repeat steps 1 – 2 for each line that needs to be filled out.
4. Click the “OK” button once all of the information is filled out. The fields entered will be built into the final report, which is generated on completion of the extraction.

Other Notes

The Case Details Form can be opened and edited for previous extractions.

Data Extraction

Searching for Drivers

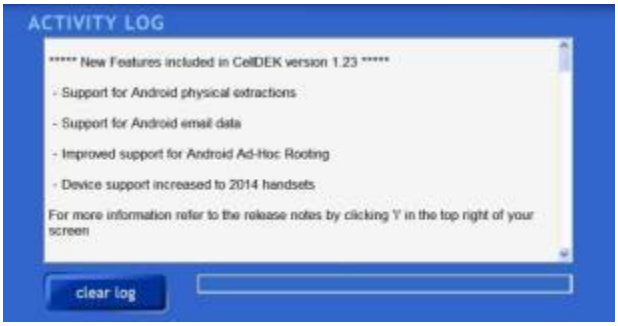
Sometimes drivers are required for a handset that has never been attached before. Drivers must be installed fully prior to the extraction

Standard Data Extraction

Once a target device has been identified and connected, the CellDEK TEK software will prompt the user to continue. Doing so starts the extraction process for “standard data”.

Standard data includes such information as Contacts, Call Logs, SMS Text Messages and Organizer data.

As the data is being extracted, CellDEK TEK will show the progress in the Activity Log on the screen:


ACTIVITY LOG
***** New Features included in CellDEK version 1.23 *****
- Support for Android physical extractions
- Support for Android email data
- Improved support for Android Ad-Hoc Rooting
- Device support increased to 2014 handsets
For more information refer to the release notes by clicking 'i' in the top right of your screen
clear log

Activity Log

Abort Capture

The capture process can always be aborted by clicking the “Cancel” button during the capture operation. This button is located underneath the Activity Log. If the “Cancel” button is pressed the following prompt will appear:

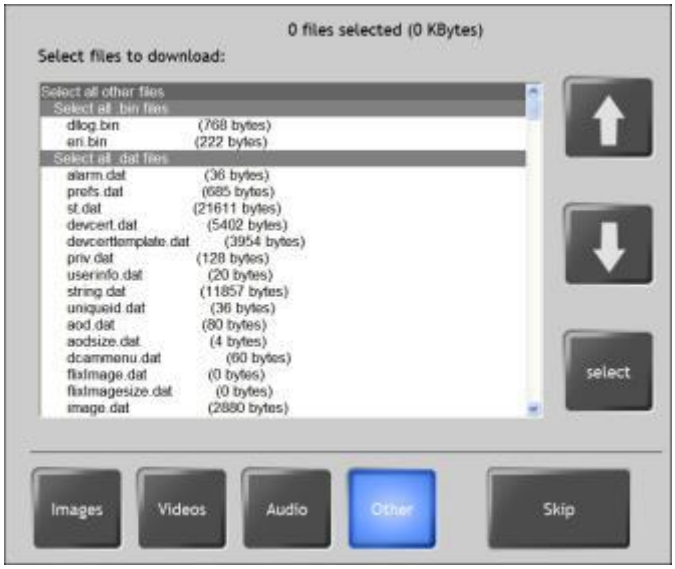
Abort Capture Prompt

This prompt will allow the user to skip the current capture operation (i.e. downloading contacts) or abandon the whole capture session. Pressing the Abandon button will go back to the Main Application Screen.

Extended Data Extraction

"Extended Data" refers to such items as Image files, Video files, Audio files and any other files such as themes, screensavers, etc.

When the standard data has been extracted, the user is given the option to select and download other files from the target device.



Data Download Selection Screen

1. Click the "Images" Button at the bottom of the screen, CellDEK TEK will display all supported Image files that were found in the target device's memory.
2. Select an Image file for download by clicking once on it. Click a second time to deselect the file. Scroll through the list and click any other files that are desired.
3. Repeat Steps 1 – 2 for the "Video", "Audio" and "Other" buttons.

   NOTE: Select all files of a particular type by clicking the "Select all <.ext> files" bar.
4. As files are selected, CellDEK TEK shows the number and size of total files at the top of the screen.
5. Once all needed files have been selected, click the Download button. The Download Manager will show progress as the files are downloaded to CellDEK TEK.

Download Manager

6. At any time, click the "Change Selection" button to stop downloading and re-select the files to download.

7. As the files download, the Activity Log will indicate downloaded files in green, selected files not downloaded in gray and unselected files in white.

Activity Log During Download

On completion of the download, a summary of all files, including listings for files not selected for download, will be displayed. The data received from the target device is written into an .XML and a .CSV file, then stored in the case unique folder.

NOTE: The CSV data file only contains data for Device Info, Call Logs, Contacts, and Messages.

Support for Non-Latin Languages

All handsets supported by CellDEK TEK have had full validation of each feature carried out for the full range of Latin character sets (ASCII programming language).

CellDEK TEK has also been further developed to extract information from Unicode languages that provide non-Latin character sets such as Greek and Arabic characters.

These extractions have not been verified although tests indicate the following:

- SIM cards (supported natively)
- Windows (supported natively)
- Nokia (supported natively)
- Sony Ericsson (full support, Unicode development implemented: an option has been implemented to allow the user to extract in ASCII if required)
- Samsung (partial validated Unicode support - for messages only)
- Motorola (partial support, Unicode development implemented: an option has been implemented to allow the user to extract in ASCII if required)

- Siemens (partial i.e. validated Unicode support for handsets contacts and notes)

If CellDEK TEK does not extract a character, it will appear as a square on the screen.

Special Note for Motorola and Sony Ericsson

The extraction of Unicode characters for all data sets has not been verified for Motorola and Sony Ericsson devices.

Before an extraction begins with one of these devices the CellDEK TEK will offer the user a choice:

1. Extract validated data set only. This means that some Unicode data will not be extracted.
2. Attempt to extract all Unicode data. Software will try to extract Unicode characters for all data sets on the device. At this time the output in this case is not guaranteed by validation testing.

Other Data Extraction Notes

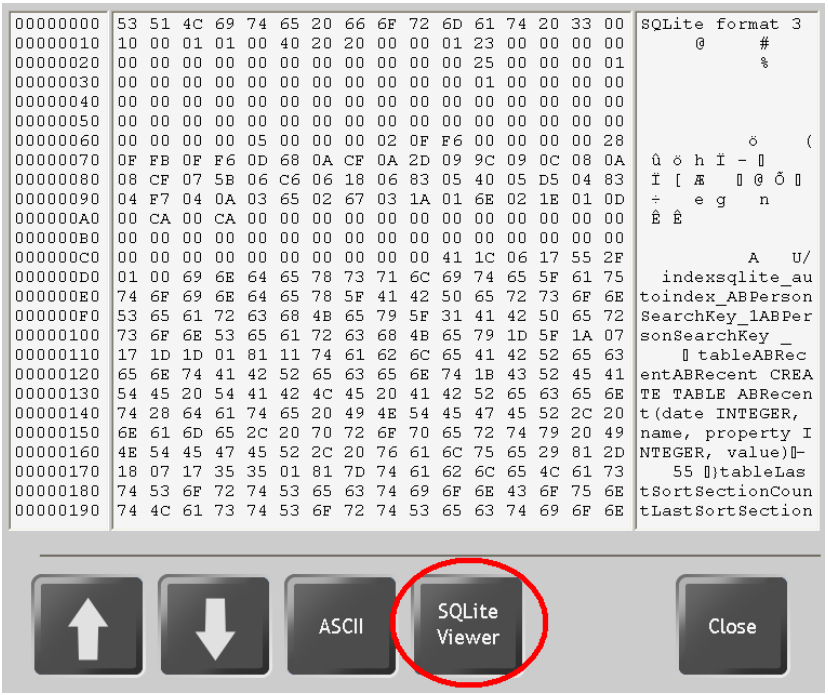
This section contains extraction information and notes regarding specific handsets, phone Operating Systems, or devices.

SQLite Viewer

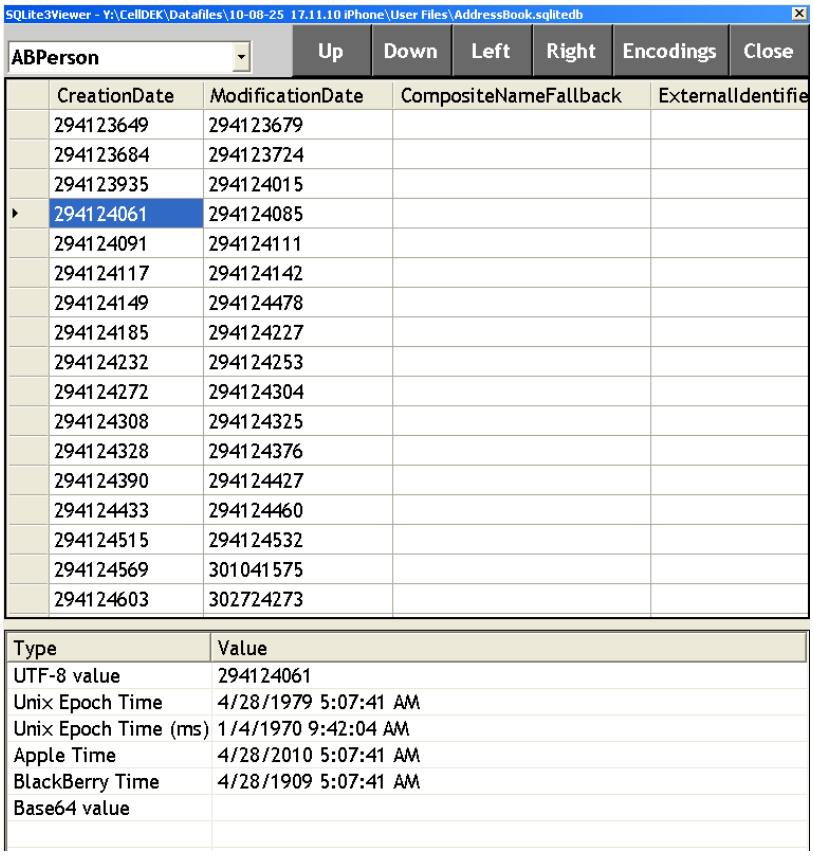
CellDEK TEK has an SQLite Viewer which allows SQLite databases to be explored – SQLite databases can be found in Apple, Android OS devices, BlackBerry and Symbian OS Series 60 smartphones. Apps such as Apple Safari and Opera store data in SQLite databases.

An SQLite database looks like the following screen when viewing extracted data.

Click the link in the extracted data entry (in this example, click “view file content as HEX/ASCII”. The following screen will appear:



Click the ***SQLite Viewer*** button to open the SQLite Viewer.



Android Devices

CellDEK TEK has the capacity to extract information from mobile devices that use Google's Android operating system. Extracted data includes: Contact details, Call Logs, SMS messages, Calendar/Tasks and Files. CellDEK supports extraction of contacts database on handsets running on Android 2.2 operating system.

Before an extraction can be performed, users must:

1. Tick "Unknown Sources" and "USB debugging" in the target devices application settings.
2. Ensure the target device has a formatted SD Card inserted.

The Android extraction process requires the use of an application (Agent) which is automatically installed onto the target device and executed. The Agent extracts data from the device and stores in a temporary file called ANDDAT on the devices SD Card. (**\sdcard\ANDDAT**). At the end of the extraction, the ANDDAT file is deleted from the card and the Agent is automatically uninstalled.

- Supports physical extraction and decoding of Android phones
- Supports Android O/S 1.6 through 2.3.4
- Supports Android file systems EXT3, EXT4 and RFS, and provides limited support for YAFFS2. YAFFS2 is expected to be fully supported in a future release
- Supports dumping and decoding of contacts, call logs, SMS, emails and user files
- Can extract deleted file items such as databases, images, video, audio and documents

It is expected that most Android phones using the above mentioned Android O/S and/or file systems will be supported.

Samsung Galaxy S3

The following Samsung Galaxy S3 devices can be rooted.

NOTE: Rooting Samsung Galaxy S3 requires permanently flashing a new insecure bootloader image onto the device. The device will remain permanently rooted.

NOTE: 100% successful rooting is not guaranteed. In rare instances rooting can render the handset inoperable. Proceed with caution.

- SAMSUNG I9300 4.0.4 build IMM76D
- SAMSUNG I9300 4.0.4 build IMM76D
- SAMSUNG I9300 4.0.4 build IMM76D
- SAMSUNG I9300 4.1.1 build JRO03C
- SAMSUNG I9300 4.1.1 build JRO03C
- SAMSUNG I9300 4.1.2 build JZO54K
- SAMSUNG I9305 4.1.1 build JRO03C

- SAMSUNG I9305 4.1.1 build JRO03C
- SAMSUNG I9305 4.1.1 build JRO03C
- SAMSUNG I9305 4.1.1 build JRO03C
- SAMSUNG I9305 4.1.2 build JZO54K
- SAMSUNG I9305 4.1.2 build JZO54K
- SAMSUNG I9305N 4.1.1 build JRO03C
- SAMSUNG SPH-L710 4.0.4 build IMM76D
- SAMSUNG SPH-L710 4.1.1 build JRO03C
- SAMSUNG SGH-I747 4.0.4 build IMM76D
- SAMSUNG SGH-I747 4.1.1 build JRO03C
- SAMSUNG SGH-I747 4.1.1 build JRO03L
- SAMSUNG SGH-I747M 4.0.4 build IMM76D
- SAMSUNG SGH-I747M 4.0.4 build IMM76D
- SAMSUNG SGH-I747M 4.1.1 build JRO03C
- SAMSUNG SGH-T999 4.0.4 build IMM76D
- SAMSUNG SGH-T999 4.1.1 build JRO03C
- SAMSUNG SGH-T999V 4.0.4 build IMM76D
- SAMSUNG SGH-T999V 4.1.1 build JRO03C
- SAMSUNG SCH-R530 4.0.4 build IMM76D
- SAMSUNG SCH-R530 4.1.1 build JRO03C
- SAMSUNG SCH-R530M 4.0.4 build IMM76D
- SAMSUNG SCH-I535 4.0.4 build IMM76D
- SAMSUNG SCH-I535 4.1.1 build JRO03C

Android Ad-hoc Device Rooting

CellDEK TEK software version 1.21.x.x and newer can temporarily root Android OS devices. This allows access to all user data stored on the device. Ad-hoc rooting does not work with all Android devices. Rooting is removed after the device is restarted. Please check with local laws governing rooting prior to using.

- Compatible with the majority of Android OS devices
- Android OS versions 1.6-2.3 are supported
- Gives access to the whole file system. After rooting/data/data and/data/misc folders of Android device internal memory are available for analysis. Without root permissions these folders are inaccessible.
- 100% successful rooting is not guaranteed

NOTE: 100% successful rooting is not guaranteed. In rare instances rooting can render the handset inoperable. Proceed with caution.

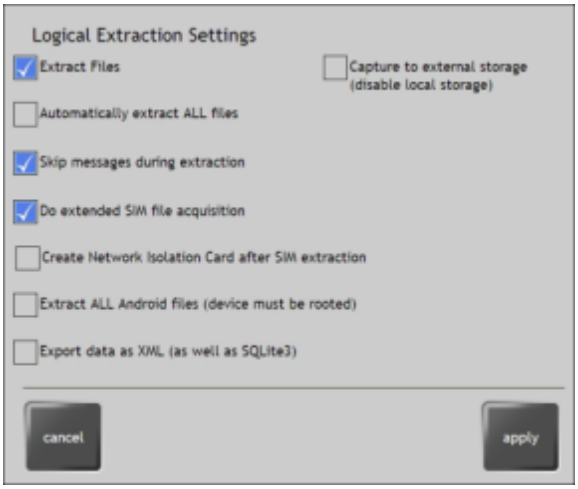
Ad-hoc rooting will provide the following features:

- Allows user to access the whole device file system
- Deleted data in database tables (deleted contacts, messages, etc.)
- Pre-installed and custom applications with user data
- Yahoo! Mail and Google Mail application data
- Google Maps, Google Talk and Google Calendar application data
- Dropbox application data

Ad-hoc device rooting is not required for the data extraction of Call Logs, Phonebook and Messages.

When performing an Android extraction, CellDEK TEK will ask if you want to temporarily “Root” the Android device. If successful, the device will remain rooted until turned off.

In the ***Logical Extraction Settings*** there is a option called ***“Extract ALL Android Files (device must be rooted)”***. When checked, and the Android device is rooted, ALL file locations will be extracted. Please note this may take a long time to complete the extraction.


Logical Extraction Settings
Extract Files
Capture to external storage (disable local storage)
Automatically extract ALL files
Skip messages during extraction
Do extended SIM file acquisition
Create Network Isolation Card after SIM extraction
Extract ALL Android files (device must be rooted)
Export data as XML (as well as SQLite3)
cancel
apply

If the device is not rooted, only the following file locations will be extracted:

/sdcard/

If the device is rooted and the checkbox for ‘Extract ALL Android files’ is not checked, only the following file locations will be extracted:

/sdcard/
/data/data/
/data/misc/

Android Email

CellDEK TEK can extract data from the default email and Gmail databases.

- Device must be temporarily rooted
- Email attachments not supported
- Email body preview only

Android App Data

The Android extraction can extract data from the following apps:

- Skype
- Facebook Messenger
- Yahoo Messenger
- WhatsApp
- Dolphin Browser

NOTE: The Android device must be rooted for the above data to be extracted.

Skype, Facebook Messenger, Yahoo Messenger and WhatsApp data is categorized as IM Data and can be found in the following report sections: IM Contacts, IM Calls and IM Chat.

Dolphin Browser data can be found in the URLs report section.

Android Location Information

The Android extraction can extract Cell and WIFI connection location information which includes GPS coordinates and timestamps. This information is shown in the Location Information section of the report. CellDEK also generates a Google Earth .KML file called GPSData.kml which is created in the extracted data files folder. This file can be imported into Google Earth. Note: The device must be rooted to acquire location information.

Android files of Interest

The Android extraction can extract system files *. Some of these files may contain useful information. These files are described below: -

- ***\data\data\com.google.android.location\files\cache.wifi***
  Contains cached WIFI details.
- ***\data\data\com.android.providers.userdictionary\databases\user_dict.db***
  Containing cached user entered text
- ***\data\data\com.google.android.gm\databases\gmail.db***

- ***\data\data\com.google.android.gm\databases\mailstore.*.db***
  Contains Google email account and mailstore databases
- ***\data\data\com.google.android.talk\shared_prefs\BuddyList.xml***
  Contains Google Talk contact details
- ***\data\data\com.android.providers.calendar\databases\calendar.db***
  Contains Google calendar details
- ***\data\data\com.yahoo.mobile.client.android.mail\databases\mail.db***
  Contains Yahoo email details

NOTE: Device must be rooted to acquire some of these files.

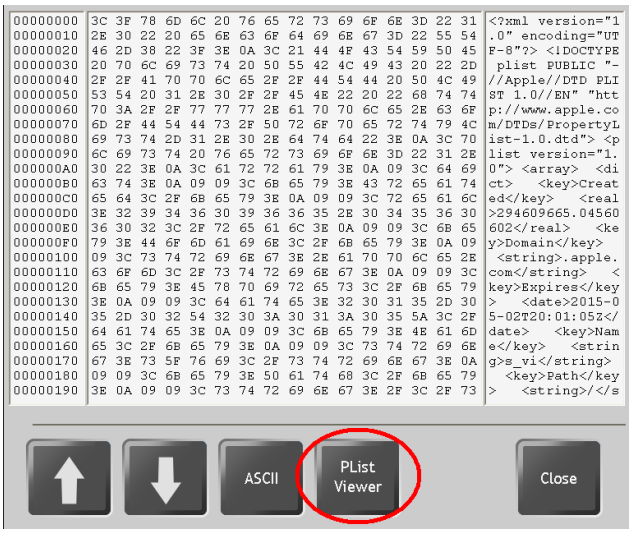
Data Capture from Apple iPhone

PList Viewer

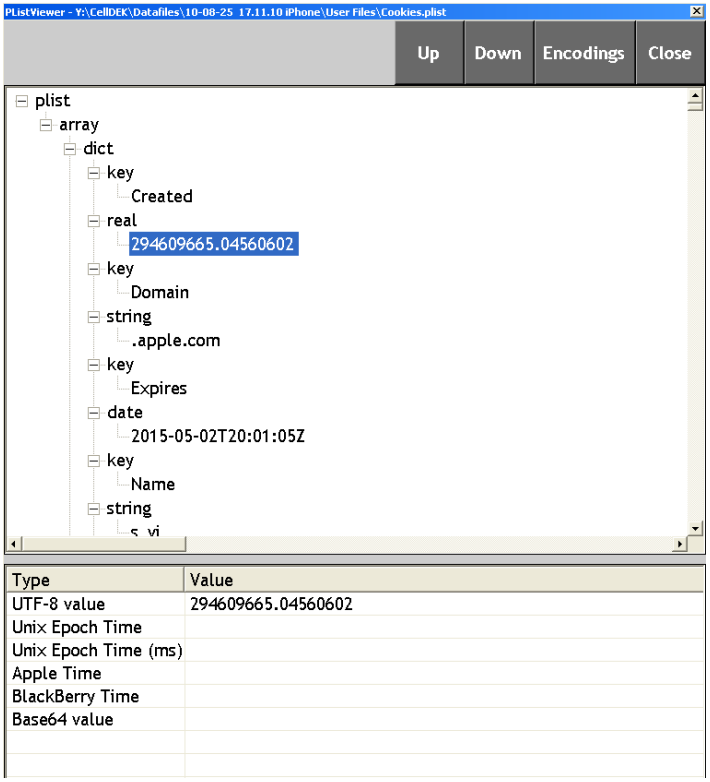
CellDEK TEK includes a PList Viewer which allows Apple Property List binary XML files to be viewed. Plist files may contain a lot of valuable forensic information such as browser history, Wi-Fi access points, speed dials, Bluetooth settings, global applications settings, Apple Store settings etc.

A PList database looks like the following screen when viewing extracted data.

Click the link in the extracted data entry (in this example, click “view file content as HEX/ASCII”. The following screen will appear:



Click the ***PList Viewer*** button to open the PList Viewer.



iPhone Passcode Bypass

CellDEK TEK can extract data from a passcode locked iPhone if specific iTunes .plist files from a PC or Mac are available. The iPhone's passcode must have been enabled then synced with the PC or Mac after the passcode was enabled. The PList files will need to be copied from the PC or Mac to a specific folder/directory on a USB drive.

1. Locate iTunes .plist files from synced PC or Mac. These can be found in the following locations:

   - Windows 98/ME/2000/XP iTunes Users:
     Documents and Settings\All Users\Application Data\Apple\Lockdown

   - Windows Vista/7 iTunes Users:
     Users\<User Name>\AppData\Roaming\Apple Computer\Lockdown

   NOTE: Windows file locations are hidden by the Operating System by default. There are different ways of showing hidden files depending on the Operating System. Please search the Internet or contact Microsoft support for instructions on how to show hidden files.

- Mac OS X iTunes Users:
  VolumeName\Users\<User Name>\Library\Lockdown

  Or

  /var/db/lockdown

2. Copy all iTunes .plist files to the following directory on a USB drive (It is recommended that the USB drive is formatted before creating \CellDEK\Lockdown directory and copying .plist files):

   - **:\CellDEK\Lockdown**

3. Insert USB drive into CellDEK and perform a regular iPhone extraction. CellDEK will then search the USB drives for any .plist files and import them if found.

iPhone App Data

The iPhone extraction can extract data from the following apps:

- Skype
- Yahoo Messenger
- WhatsApp
- Dolphin Browser

Skype, Yahoo Messenger and WhatsApp data is categorized as IM Data and can be found in the following report sections: IM Contacts, IM Calls and IM Chat.

Dolphin Browser data can be found in the URLs report section.

Apple Location Information

The file GPSData.kml is created when extracting an iPhone. This file can be opened using Google Earth.

iPhone Dictionary Data

CellDEK TEK software version 1.21.x.x and newer reports a list of keywords extracted from the following iPhone file: *dynamic-text.dat.* These keywords are shown in the report under the dictionary heading.

iPhone files of Interest

During the iPhone extraction process a number of 'other' files can be extracted. Some of these files may contain useful information.

A selection of these files is shown below:

- ***\private\var\mobile\Library\Cookies\Cookies.plist***
  Contains website cookies saved by the Safari browser.
- ***\private\var\mobile\Library\Safari\Bookmarks.db***
  Contains website bookmarks saved by the Safari browser.
- ***\private\var\mobile\Library\Safari\History.plist***
  Contains website history saved by the Safari browser.
- ***\private\var\mobile\Library\Mail\Accounts.plist***
  Contains email server account details, this does not include actual emails.
- ***\private\var\mobile\Library\maps\History.plist***
  Contains a 'Google Maps' history file which includes addresses, route directions and other useful data.
- ***\private\var\mobile\Library\Keyboard\dynamic-text.dat***
  A keyboard cache containing user entered text.

- ***\private\var\mobile\library\Preferences\com.apple.Maps.plist***
  Contains the last longitude/latitude coordinates viewed in the 'Google maps' application.
- ***\private\var\mobile\library\Preferences\com.apple.mobilesafari.plist***
  Contains a list of recent searches performed using the Safari browser
- ***\private\var\root\library\caches\locationd\consolidated.db***
  Contains a list of web connections and location services
- ***\private\var\mobile\library\Calendar\Calendar.sqlitedb***
- ***\private\var\mobile\library\Preferences\com.apple.mobilecal.plist***
  Contains Google calendar details
- ***\private\var\mobile\library\WebKit\Databases\Databases.db***
- ***\private\var\mobile\Library\WebKit\Databases\http_m.yahoo.com_0*.db***
- ***\private\var\mobile\Library\WebKit\Databases\https_mail.google.com_0*.db***
  Contains email database details
- **\private\var\mobile\Applications\com.yahoo.messenger\Library\Preferences\com.yahoo.messenger.plist**
- **\private\var\mobile\Applications\com.yahoo.messenger\Documents*.db**
  Contains a list of Yahoo Instant Messenger files

Note: The content of these files has not been verified.

Data Capture from Symbian OS

CellDEK TEK now has the capacity to extract information from mobile handsets that use the Symbian operating system (Series 60 / Nokia Symbian OS V 8.1). Extracted data includes Contact Details, Call Logs, SMS messages, Calendar, Tasks and Files.

This data capture is possible with the following caveats:

- No SIM data is extracted from Symbian handsets.
- "Nicknames" are not extracted.
- Cannot extract any SMS messages stored in 'My Folders' directory or other user created folders.

To extract data, it is necessary for CellDEK TEK to write temporary .dat files to the target phone. These files are removed at the end of capture.

Capture from Symbian UIQ 2nd & 3rd Edition OS

CellDEK TEK now has the capacity to extract information from mobile handsets that use the Symbian UIQ 2nd and 3rd Edition OS. Extracted data includes Contact Details, Messages, Calendar, Tasks and Files.

Data capture requires a handset Agent and the use of a CellDEK TEK UIQ memory card. This is a specially prepared card by CellDEK TEK to temporarily store and transfer data.

WARNING: Do not create the UIQ memory card from the card used inside the handset. Always use a separate blank, formatted card that is not write protected.

Use these memory cards for best results:

Sony Ericsson

P800 / P900 Memory Stick Duo, minimum size 16MB

P910i / P990i Memory Stick PRO Duo, minimum size 64MB

M600i / P1i Memory Stick Micro (M2), minimum size 256MB

Motorola

Z8 / Z10 Micro SD, minimum size 128 MB

Follow these steps to capture data:

1. User inserts spare memory card into the memory card reader.
2. CellDEK TEK generates and formats a UIQ card and installs the Agent.
3. User then inserts the UIQ card into handset.
4. User locates the Agent installer on the UIQ card using the file browser application and then installs the agent onto the device.
5. User locates and runs the Agent application, then waits for the data extraction to complete. ***Extracted data is now stored on the UIQ card.***
6. User removes the UIQ card from the handset and inserts it back into the memory card reader.
7. CellDEK TEK automatically copies and decodes all data from the UIQ card.
8. CellDEK TEK formats the UIQ card.
9. CellDEK TEK instructs the user to uninstall the agent from the handset. q
10. CellDEK TEK presents the results to the user.
11. This data capture is possible with the following caveats:

Extraction of Call Logs is not supported.

Extraction of SMS messages stored in user created folders is not supported.

Extraction of MMS / Email messages is not supported.

Memory cards within these phones need to be captured separately. (Please refer to “Capturing a Flash Memory Card” earlier in this chapter).

Symbian Event Logs

Symbian S60 2nd Edition and 3rd Edition handsets have the ability to record events which CellDEK TEK can extract.

The following information can be extracted:

- Voice Call events – ID, Number, Date, Time, Direction and Duration
- SMS events – ID, Number, Date, Time, Direction, Message Fragment and Status
- MMS events – ID, Name, Date, Time, Direction and Duration

These events are normally accessed by the handset's Log Viewer application. These events have a validity period set in the Log Viewer settings. Once this duration period has expired, events will no longer be accessible.

Points of Interest

- Timestamps extracted by CellDEK TEK are always reported in Greenwich Mean Time (GMT) whereas the timestamps shown in the handset's Log Viewer application are set to the handset's current time zone.
- CellDEK TEK is able to extract message fragments for SMS events. These are not displayed by the Log Viewer application. Only the first 64 characters of a message are reported any messages greater than 64 characters are truncated in the event log, including multipart messages where only the first 64 characters of the first message part are reported.
- Incoming MMS messages are shown as 2 separate events, 1 incoming SMS event and 1 outgoing MMS event. CellDEK TEK extracts both of these events. The SMS event has a body fragment of *Data Message*

The following Symbian S60 handsets are verified on CellDEK TEK:

NOKIA: 3230, 3250 5320XpressMusic, 5500 Sport, 5700, 6120, 6220 Classic, 6260, 6290, 6620, 6630, 7610, E50, E51, E61, E63, E65, E66, E70, E71, N70, N71, N72, N73, N76, N77, N79, N80, N81, N82, N85, N90, N91, N93, N93i, N95, N95 8GB

SAMSUNG: I8510, SGH-D720, SGH-G810

Data Capture from Sony Ericsson Phones

If the User runs into trouble capturing data from a Sony Ericsson phone (or any other handset that connects to Cable #18), users should make sure that the "Default Contacts" setting on the target handset is set to "Phone Contact" before an extraction is performed.

This is done by navigating manually on the phone's menus as follows:

Menu > Contacts > Options > Advanced > Default Contact > Select "Phone Contact".

Once this setting is enabled, users should have no trouble extracting data from the handset.

Blackberry PIN Lock

The CellDEK TEK allows the user to input the PIN lock for a Blackberry device directly through the CellDEK TEK interface rather than the device itself. The CellDEK TEK will automatically detect if a PIN lock is enabled and bring up the Enter Password Prompt.

Enter Password Prompt

TIP: Click “Hide Password” to turn it on or off. If Hide Password is on, the password will appear.

Hide Password Turned On

NOTE: The password or the PIN of the Blackberry device will need to be entered. CellDEK cannot unlock the device without it.

BlackBerry PIN Numbers

Each BlackBerry device is assigned a unique personal identification number (PIN) which allows identification of each device. The PIN number of other BlackBerry users is stored in the devices phonebook with their contact information and allows direct PIN-to-PIN emailing and messaging. CellDEK TEK extracts each contact PIN number from the phonebook as well as the PIN numbers associated with messages sent from other BlackBerry users.

Time/Date Stamps from Motorola Phones

Users should note that Motorola timestamps / date stamps are not reported due to current limitations in how file “modified” and file “created” timestamps are reported in the Motorola OS. This will be remedied in a future software update.

Null Response from Siemens handsets

Occasionally, Siemens handsets have been known to return a NULL response when asked for data of a particular type (i.e. SMS messages). If this happens, the following error message will appear under the relevant data type:

Handset has been known to occasionally return a null response. Please refer to handset and retry extraction.

Users should check the affected field(s) on the handset and retry the extraction.

SMS Attached Content

SMS Messages can contain extra content other than standard text.

CellDEK TEK notifies the user when any extra content appears within an SMS Message.

NOTE: This feature is currently only supported for SMS extracted through handsets supporting AT commands. Reporting of attached content functionality is not supported for Blackberry, Symbian or WinMobile handsets.

Notifications appear within the body part of the message and describe the type of attached content.

Notifications appear in the following form:

[CONTAINS CLIPART REFER TO HANDSET]

SMS Messages may contain more than one type of attached content. CellDEK TEK will display a notification for each piece of attached content within the message.

VCard and VCalendar Content

VCards and VCalendars are used to exchange information between application.

VCards store address book entries while VCalendars store organiser entries.

VCards and VCalendars can be attached to SMS Messages. CellDEK TEK will now display the raw data of attached VCards and VCalendars within the body of the SMS Message.

VCard and VCalendar data will appear between the tags

[ATTACHEMENT: CONTACT DATA]

Or

[ATTACHMENT: CALENDAR DATA]

And will end with

[END ATTACHMENT]

As SMS Messages have a limited size VCards and VCalendars may span several messages.

In this case each part of the VCard or VCalendar will start with the tag

[ATTACHMENT CONT..]

To indicate the content follows from a previous message.

Each message part will also end with the tag

[…]

To indicate that more content will follow in the next message.

NOTE: VCard and VCalendar content is displayed in its raw format. Where VCards and VCalendars span more than one SMS Message, each part will need to be manually put together to form a valid VCard or VCalendar entry. More information on VCards and VCalendars can be found at www.imc.org/pdi/

Various WinMobile Devices

The following mobile GPS software has been verified and can be extracted from supported devices using CellDEK TEK:

- Google Maps Mobile (Various Windows Mobile devices)

Other Extraction Notes

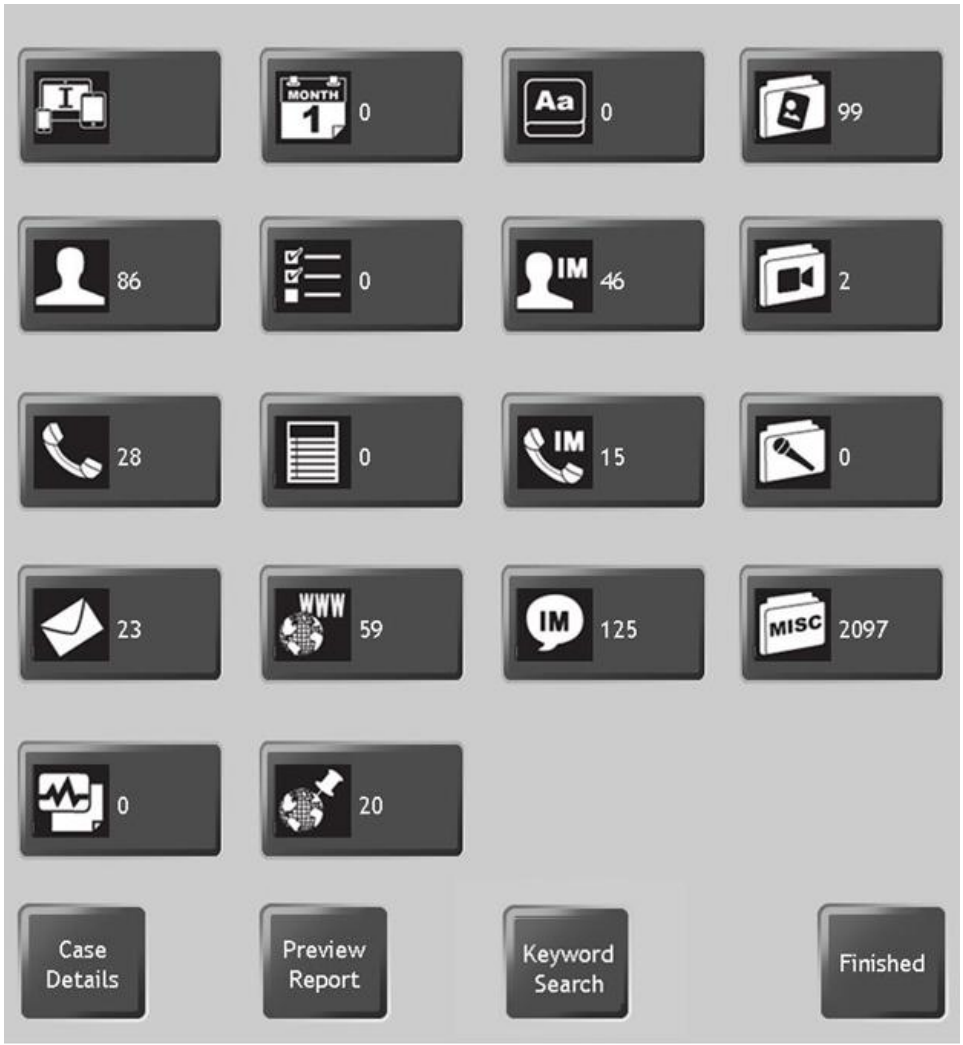
CellDEK TEK can play back W4A files that have been extracted from devices.

W4A files are audio files that can be created on some mobile handsets.

Displaying Extracted Data

Once the extraction for standard and extended data is complete, the data is displayed onscreen prior to the generation of the CellDEK TEK report. All data is individually hashed using the MD5 algorithm to ensure that the data can be verified as unchanged.

As of CellDEK TEK software 1.25.x.x, the extracted data is viewable in a new on-screen report:



The on-screen report can have different icons showing depending on the type of device extracted. Each button will have a number showing how much data was extracted. Here is a list of available icons:

--- **Device Information** – Shows information about the device including the Manufacturer, Model, IMEI/ESN, SIM Card information (if a SIM card is included), etc.)

--- **Contacts** – This contains extracted contacts from the device.

--- **Call Logs** – Thiscontains extracted call logs from the device.

--- **Messages** – This contains extracted messages from the device.

--- **Event Logs** – This contains extracted event logs from the device.

--- **Calendars** – This contains extracted calendar entries from the device.

--- **Tasks** – This contains extracted tasks from the device.

--- **Notes** – This contains extracted notes from the device.

--- **URLs** – This contains extracted URLs from the device.

--- **Locations** – This contains extracted locations from the device.

--- **Dictionaries** – This contains extracted dictionaries from the device.

--- **IM Contacts** – This contains extracted contacts from Instant Messengers.

--- **IM Call Logs** – This contains extracted call logs from Instant Messengers.

--- **IM Chat** – This contains extracted chat entries from Instant Messengers.

--- **GPS Data** – This contains extracted GPS data from GPS devices.

--- **Image Files** – This contains extracted image files from the device.

--- **Video Files** – This contains extracted video files from the device.

--- **Audio Files** – This contains extracted audio files from the device.

--- **Other Files** – This contains any other extracted files from the device.

NOTE: Depending on the device, you may only see some of the icons above. For example:

- SIM cards will only show the following buttons: Device Information, Contacts, Call Logs, and Messages.
- Memory Cards will only show the following buttons: Image Files, Audio Files, Video Files, and Other Files.
- Phones will show all buttons (except GPS Data).
- GPS will show all buttons.

There are also three icons located at the bottom of the screen:

--- **Case Details** – This button opens the Case Details Input Form. Data can be edited or added to the form. Please refer back to **Chapter 3 – Capturing Data** for more information about this form.

--- **Report Preview** – This button allows you to view the Examination Report. Please see the section 'The Examination Report' later in this chapter for more information.

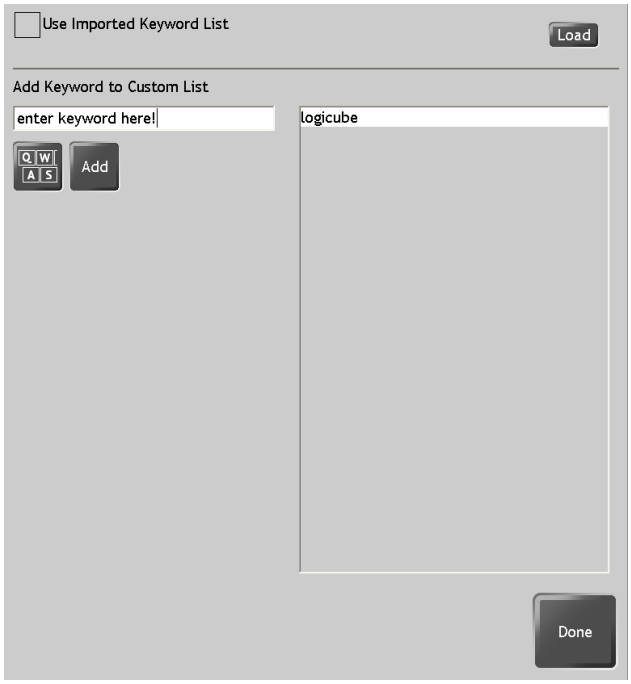
--- **Keyword Search** – Search for data from an imported keyword list stored on file called "CellDEK Report Search.txt" located on the root of a USB drive. Keywords can also be added to a custom list.

--- **Finished** – This button closes the data View Screen and goes back to the Main Application menu.

Keyword Search

To perform a keyword search from the on-screen report, click the ***Keyword Search*** button. A keyword search window will appear.

Click the ***Edit*** button to edit the keyword search. Using the on-screen keyboard or an attached keyboard, add keywords to the custom list. As you click the ***Add*** button, the keyword entered should appear on the right side. Click the ***Done*** button when finished.

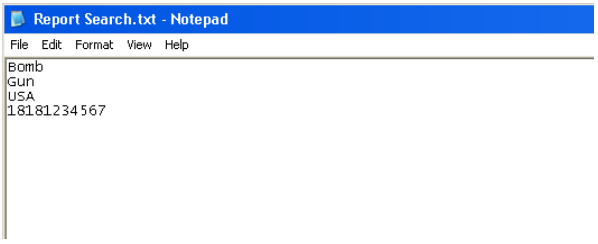


To use an imported keyword list, a keyword list file must first be created then saved somewhere on the computer connected to the CellDEK TEK. Place a check mark on the ***Use Imported Keyword List*** box then click ***Load*** button. An Open Dialog Window will open and you can browse to where you have stored the file "CellDEK Report Search.txt" and select it.

When finished, click the ***Done*** button.

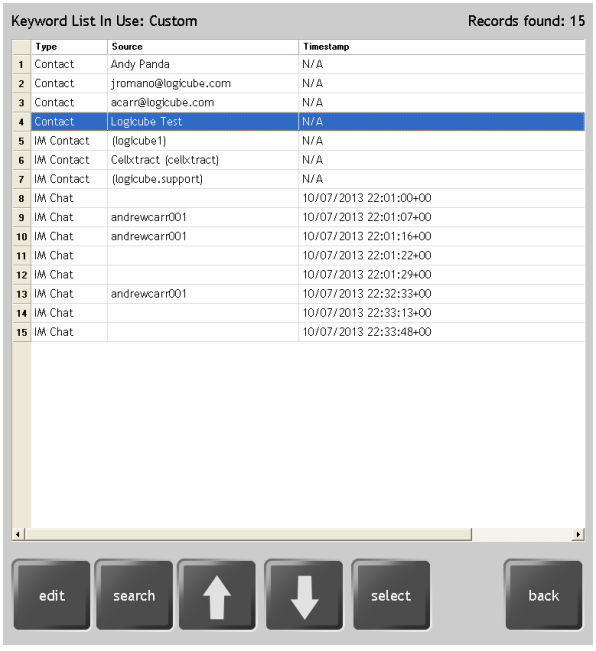
To create the keyword list, on a computer, open Notepad or a similar text editor.

Type a simple list of words as shown in the next screen shot below. Words are not case sensitive so type in all lower-case.



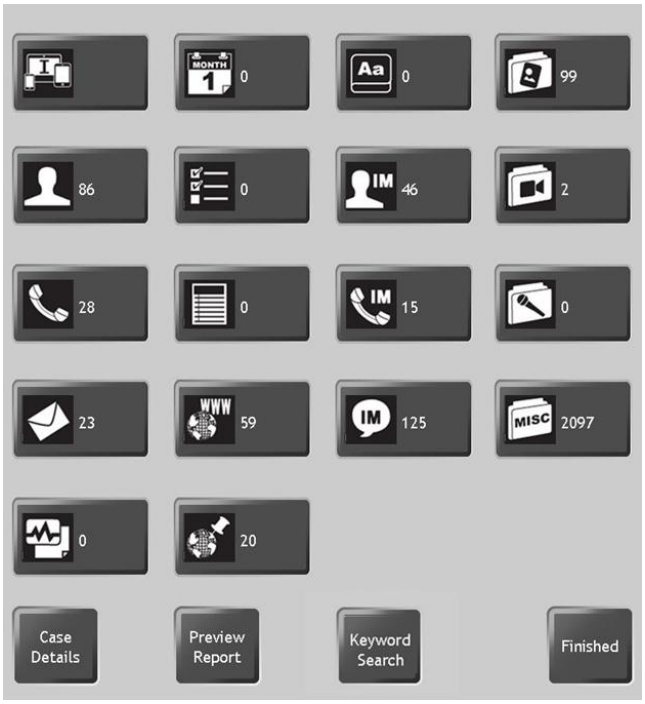
Save the file as "Report Search.txt" and save it somewhere on the computer connected to the CellDEK TEK.

After entering the keywords or selecting the imported keyword list, click the ***Search*** button. CellDEK will now search all extracted records for the chosen keywords and display the results. To view the each individual record, highlight the record then click the ***Select*** button.



	Type	Source	Timestamp
1	Contact	Andy Panda	N/A
2	Contact	jromano@logicube.com	N/A
3	Contact	acarr@logicube.com	N/A
4	Contact	Logicube Test	N/A
5	IM Contact	(logicube1)	N/A
6	IM Contact	Cellxtract (cellxtract)	N/A
7	IM Contact	(logicube.support)	N/A
8	IM Chat		10/07/2013 22:01:00+00
9	IM Chat	andrewcarr001	10/07/2013 22:01:07+00
10	IM Chat	andrewcarr001	10/07/2013 22:01:16+00
11	IM Chat		10/07/2013 22:01:22+00
12	IM Chat		10/07/2013 22:01:29+00
13	IM Chat	andrewcarr001	10/07/2013 22:32:33+00
14	IM Chat		10/07/2013 22:33:13+00
15	IM Chat		10/07/2013 22:33:48+00

Viewing Extracted Data



To view the extracted data, click one of the icons on the report screen. CellDEK TEK will display all the extracted data based on your selection.

Five buttons are available on each section viewed:

--- Clickping this icon scrolls up one page/entry.

--- Clickping this icon scrolls down one page/entry.

--- Clickping this icon scrolls up within the current page/entry.

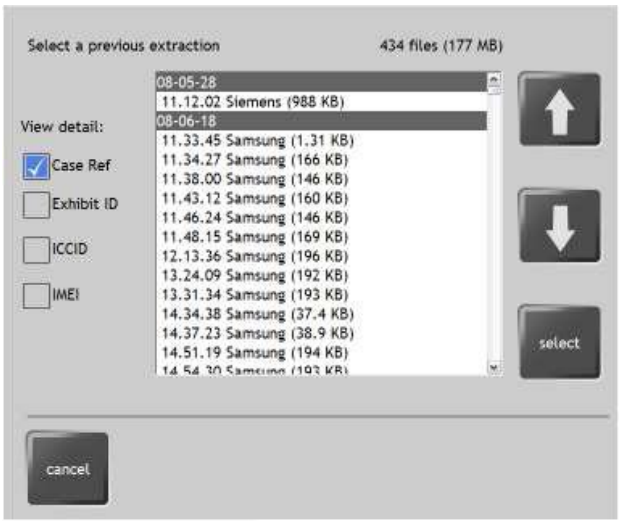
--- Clickping this icon scrolls down within the current page/entry.

--- Brings you back to the previous screen to preview another section.

Displaying Previous Extractions

Previously extracted data files can be viewed by selecting “View Previous Extractions” from the main CellDEK TEK window. Previous extractions are organized by date. Additionally, the user can search for a particular extraction by one of these choices:

- Case Reference Number
- Exhibit ID
- ICCID Number
- IMEI Number



Previous Extraction List

1. From the Main Application Screen, click the ***View Previous Extractions*** button. A list of all previous capture sessions will appear.
2. Choose the desired search criteria from the ***View Detail*** list on the side of the screen.
3. Scroll to the desired capture session and click it once to select.
4. Click the ***Select*** button. The CellDEK TEK will show the report via the on-screen report preview.

The Audit Trail

The audit trail is a set of two files that are generated along with the capture session.

Log.dat records all commands sent to and received from the target device. This includes ATA commands.

Audittrail.txt records all data received from the target device.

Al three files are stored and moved with the extracted data. They can be accessed once the capture session has been backed up to a USB storage device. They cannot be accessed from within CellDEK TEK. Please refer to **Chapter 5 – Other Features & Technical Notes** for more information on backing up files.

NOTE: Logicube Technical Support may ask the user to send a copy of **log.dat** for troubleshooting purposes.

The Report

The Examination Report is generated as an SQLite3 file. This SQLite3 file is then translated and converted to an HTML file for easy viewing,

NOTE: XML format is available and can be selected in the CellDEK Setup Screen.See the section ‘System Setup’ in Chpater 5: Other Features.

5. Other Features

Main Application Screen

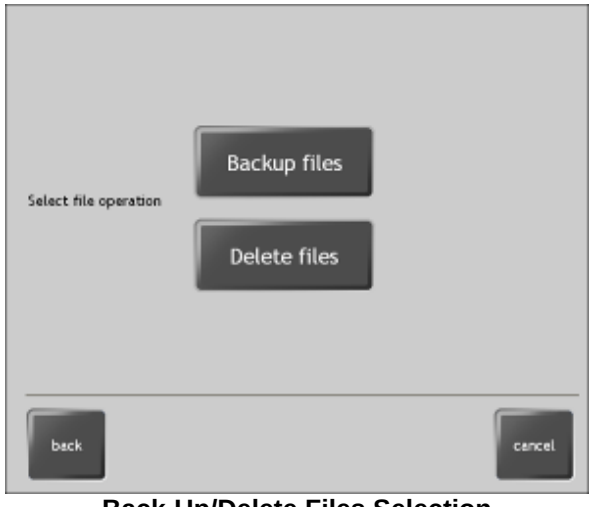
This chapter discusses those features of the CellDEK TEK application that were not covered in previous chapters.

Main Application Buttons

Managing Files

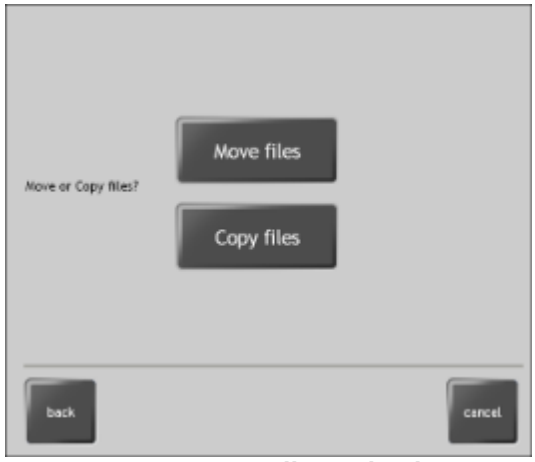
From time to time, previous capture sessions should be copied to an external storage device. This archives the data and frees up space in the computer's drive. Note all handsets must be disconnected from CellDEK prior to any file management tasks are performed.

1. From the Main Application screen, click the "Manage files" button.
2. The first prompt that appears asks whether the User wishes to "Backup" or "Delete Files".



Back-Up/Delete Files Selection

3. If “Backup files” is selected, two buttons will appear. “Move files” and “Copy Files”.

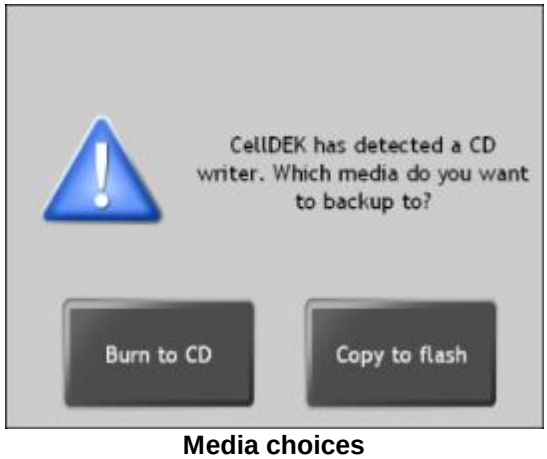


Move or Copy Files Selection

4. No matter which button is chosen, two buttons will appear, “All files” or One by One”.

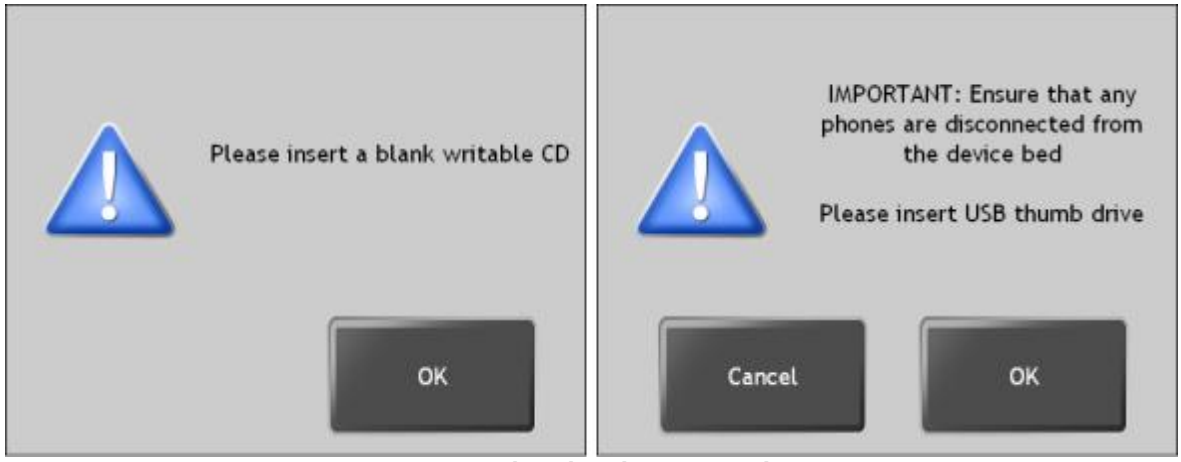
Back-Up Files Selection

5. After making a selection (“All Files” or “One by one”), and the PC the CellDEK TEK is attached to has a CD writer, you will be able to choose between backing up to a CD or to a flash drive.



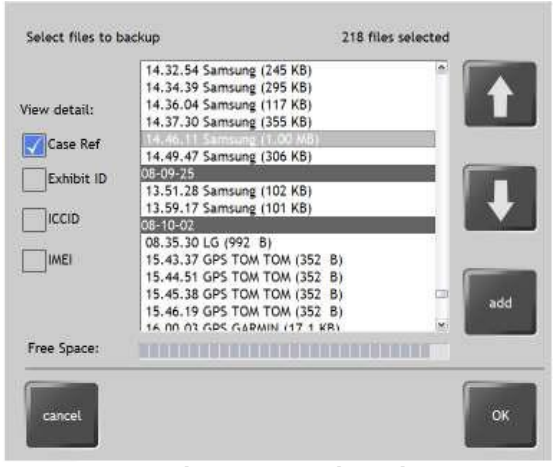
Media choices

NOTE: Depending on the choice made, one of these two screens will appear:


Please insert a blank writable CD
OK
IMPORTANT: Ensure that any phones are disconnected from the device bed
Please insert USB thumb drive
Cancel
OK

CD or USB Thumb Drive Instructions

6. If the “All files” button is clicked, all of the stored data from capture sessions will be copied to the target storage device area. The activity log will show files copied.
7. If the “One by one” button is clicked, a list of all previous capture sessions will appear



Previous Extraction List

NOTE: The “Free Space” bar underneath the file list shows the amount of free space available on the USB Flash Drive where the files are to be backed up.

If “One by one” is selected the user must highlight the individual extractions to be moved and then click OK. Repeat this step for any additional extractions that needs to be copied.

NOTE: It is recommended that old extractions get backed up from time to time.

Deleting Files

If under “manage files”, “Delete files” is selected, two buttons will appear. “All files” and “One by one”.

Deleting Files Selection

1. If the “All files” button is clicked, the stored data from all capture sessions will be deleted.
2. If the “One by one” button is selected a list of all previous capture sessions will appear. The user must highlight individual extractions to be deleted and click OK.
3. In both instances the software will ask, Are you sure you wish to delete the chosen data files? The operator must click “OK” in order to proceed with both types of deletions.

Software Update Instructions

As new cell phones, PDAs and other devices are developed, the CellDEK TEK application software will need to be updated from time to time. Software updates for CellDEK TEK will be obtainable on an installation CD.

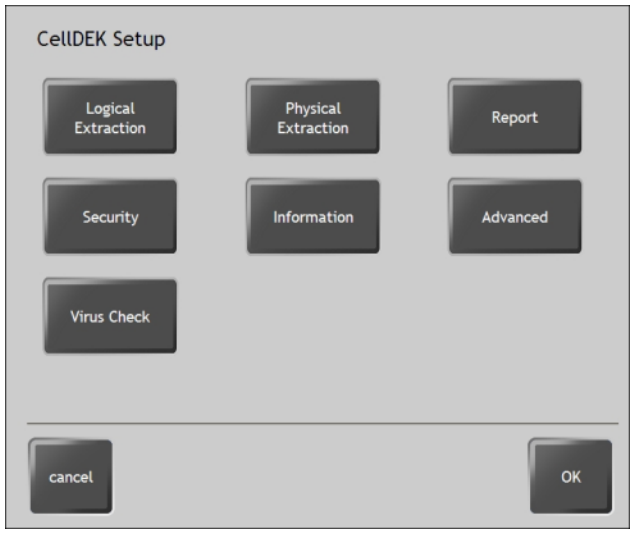
The file ***CellDEKTEK.msi*** with the file type of “Windows Installer Package” must be used to update the CellDEK TEK software. Please refer to the CD contents for instructions on upgrading the CellDEK TEK software in the file called ***CellDEK TEK SW Upgrade Sheet.pdf***.

iTunes Information and Updates

Starting with software 1.25.x.x, iTunes will be automatically updated (if needed) during the CellDEK TEK software update. It is not recommended to install iTunes manually.

System Setup

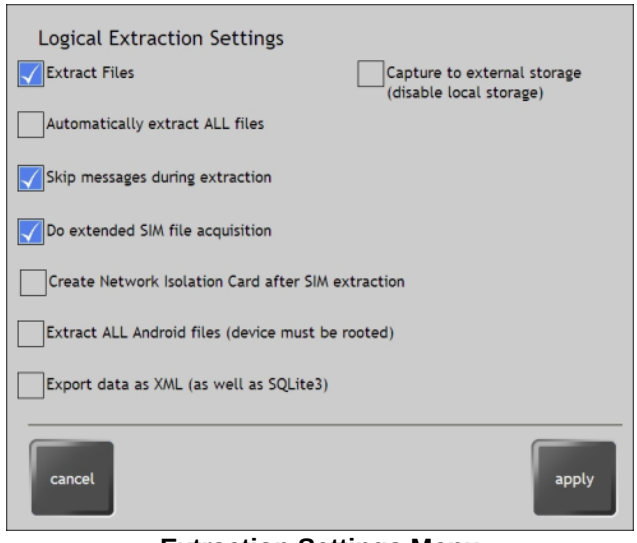
The System Setup brings up a Setup Menu as seen below:



System Setup Menu

Logical Extraction

Clickping this button brings up the Logical Extraction settings screen.

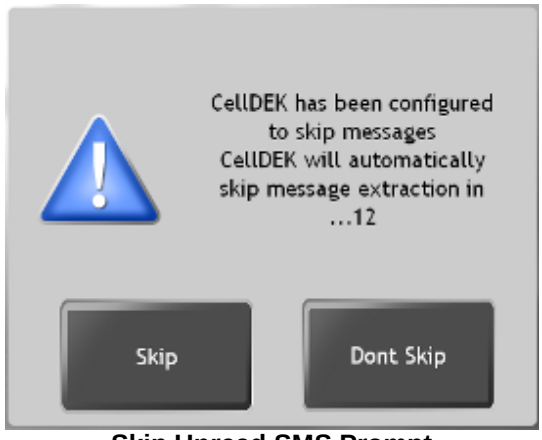

Logical Extraction Settings
Extract Files
Capture to external storage (disable local storage)
Automatically extract ALL files
Skip messages during extraction
Do extended SIM file acquisition
Create Network Isolation Card after SIM extraction
Extract ALL Android files (device must be rooted)
Export data as XML (as well as SQLite3)
cancel
apply

Extraction Settings Menu

Extract Files – Checking this box will cause CellDEK TEK to extract the target device's file listing.

Automatically Extract All Files – Checking this box will automatically download all Extended Data files without prompting the user. This includes all image, video, audio and other files.

Skip Messages During Extraction – Checking this box gives the option to skip unread SMS messages during extraction. During a capture session, the following prompt will appear:



Skip Unread SMS Prompt

The prompt gives the user 15 seconds to skip or download unread SMS messages. If none of the buttons are pressed, then the messages are skipped.

Do Extended SIM file acquisition – This feature will pull all available data off of the SIM card.

Create Network Isolation Card after SIM Capture – Checking this box will allow selective SIM data to be copied post SIM extraction to a target Network Isolation Card (NIC). The newly created NIC installed in the handset and contains enough information to appear to be the original SIM card, but it will not have the necessary information to allow the handset to connect to the network. This effectively provides Network Isolation for the phone. For additional information please refer to the supplied NIC v3.0 User Notes.

Extract ALL Android Files – When checked, and the Android device is rooted, ALL file locations will be extracted. Please note this may take a long time to complete the extraction.

If the device is not rooted, only the following file locations will be extracted:

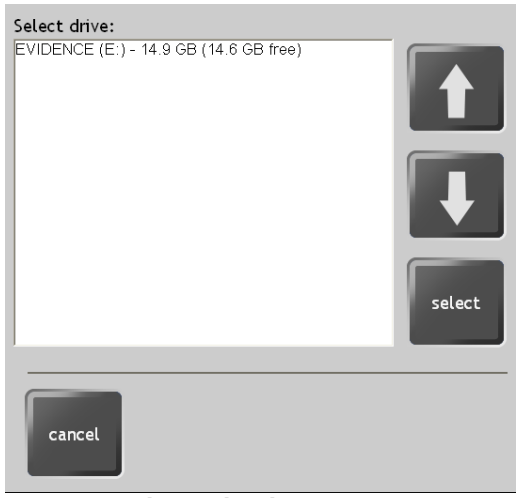
/sdcard/

If the device is rooted and the checkbox for 'Extract ALL Android files' is not checked, only the following file locations will be extracted:

/sdcard/
/data/data/
/data/misc/

Export data as XML (as well as SQLite3) – Checking this box will instruct CellDEK to export the data as XML and SQLite3. Check this box if you prefer an XML output file.

Capture to external storage – CellDEK TEK 1.18.0.0 and newer versions support capturing data directly to a USB thumb drive. When this selection is checked and you perform a new extraction by clickping ***'Read New Device'***, you will be asked to choose where the extraction files should be stored.



Drive Selection Screen

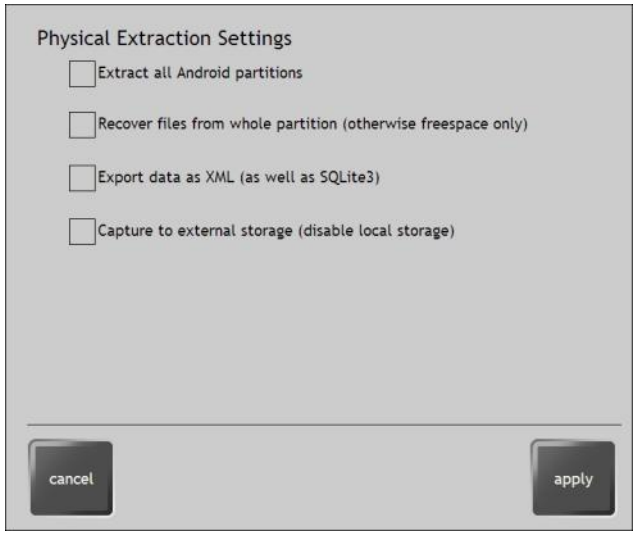
Once a drive is selected, CellDEK TEK will continue with the extraction process as normal. CellDEK TEK will store the extraction files in the following directory: '[DRIVE]:\CellDEK\Datafiles\'.

CellDEK TEK is capable of detecting encrypted thumb drive software which it will execute allowing you to enter the encryption password. Once the password is entered correctly the drive will appear in the list above.

To view previous extractions which were stored directly on a USB thumb drive, enable ***'Capture to external storage'*** in Extraction Settings, and then select 'View previous extractions'. You will be asked to choose where the extraction files are stored (which drive they are on). Once you have done this, CellDEK TEK will list the previous extractions stored on the thumb drive for you to choose from.

Physical Extraction

Clickping this button brings up the Physical Extraction settings screen.


Physical Extraction Settings
Extract all Android partitions
Recover files from whole partition (otherwise freespace only)
Export data as XML (as well as SQLite3)
Capture to external storage (disable local storage)
cancel
apply

Extract all Android partitions – When checked, and the Android device is rooted, ALL partitions will be extracted.

Recover files from whole partition – This option attempts to recover files from the different partitions.

Export data as XML (as well as SQLite3) – Checking this box will instruct CellDEK TEK to export the data as XML and SQLite3. Check this box if you prefer an XML output file.

Capture to external storage – This option allows you to save the captured data to an external storage device such as a USB flash drive or USB external drive.

Report Button

Clickping this button brings up the Report Settings screen. Checked items are represented by a blue box.

Report Settings Menu

On Screen Report Settings

Show Unread Messages – Un-checking this box prevents CellDEK TEK from showing any unread SMS messages on screen. This setting can be used for any phones that change extracted unread messages to read status.

Show Hashes – Checking this box will display the MD5 Hash Value for all extracted data files.

Show Error Descriptions – Checking this box will show detailed error descriptions for any failure to extract data. If unchecked, failure messages will read: ”An error occurred during the extraction of this section of data”.

Show Image Metadata – Checking this box will include metadata information with any downloaded images.

NOTE: All metadata may not be retrieved from every image extraction.

Show Non-downloaded Files – Un-checking this box replaces the list of non-downloaded files on the screen with a statement that the user has chosen not to show non-downloaded data.

Output Report Settings

Show Unread Messages – Un-checking this box prevents CellDEK TEK from showing any unread SMS messages on the report.

Show Hashes – Checking this box will display the MD5 Hash Value for all extracted data files.

Show Error Descriptions – Checking this box will show detailed error descriptions for any failure to extract data. If unchecked, failure messages will read: ”An error occurred during the extraction of this section of data”.

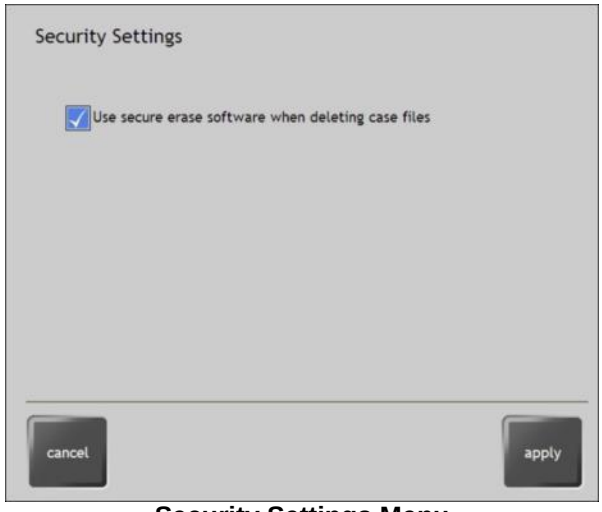
Show Image Metadata – Checking this box will include metadata information with any downloaded images on the report.

Show Image Thumb Nails – Checking this box will show thumb nail images of any downloaded image files on the report.

Show Non-downloaded Files – Un-checking this box replaces the list of non-downloaded files on the report with a statement that the user has chosen not to show non-downloaded data.

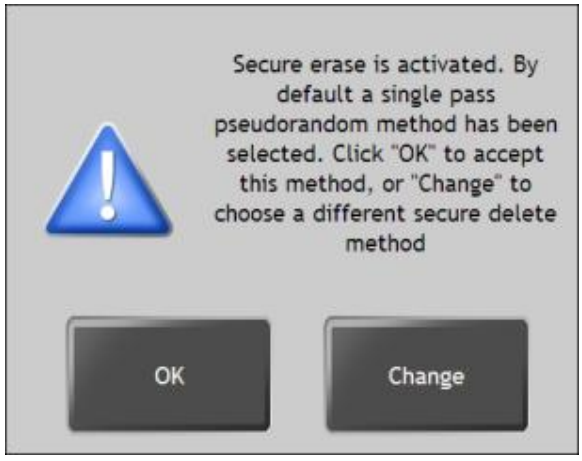
Security Button

This button is activated if the Erase program is loaded on the CellDEK TEK. A single menu choice will appear that asks if secure erase should be used when deleting case files.



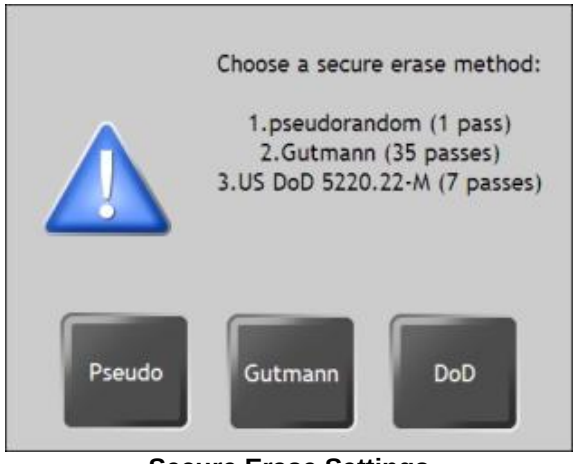
Security Settings Menu

If “Use secure erase” is checked, a prompt appears asking the user to change or accept default settings.


Secure erase is activated. By default a single pass pseudorandom method has been selected. Click "OK" to accept this method, or "Change" to choose a different secure delete method
OK
Change

Secure Erase Default Prompt

If Change is clickped, another prompt appears asking the user which level of security erase should be used.



Secure Erase Settings

The settings are:

Pseudo – Erase performs a single pass over the data and writes a pattern of random characters over it.

Gutmann – Erase copies an alternating random pattern 35 times over the data. This verifies that all magnetic traces of the data is gone.

US DoD 5220.22-M – Erase copies an alternating random pattern 7 times over the data. This level of erase conforms to DoD (Department of Defense) specifications.

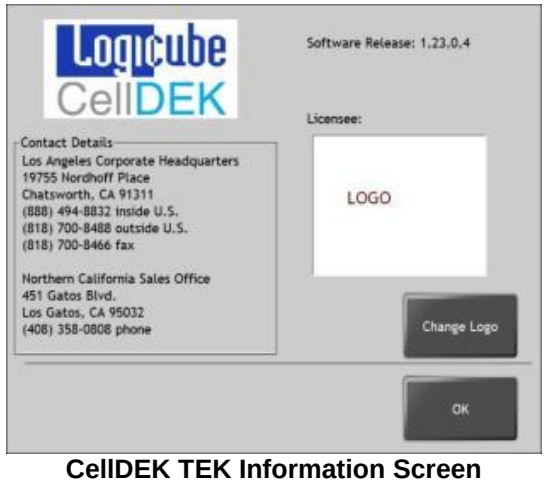
Security Erase:

CellDEK utilizes a third party utility called Eraser by Heidi Computers, Ltd. This utility is installed separately from the CellDEK software and is available as a part of software update 1.8.1.0 and up.

CellDEK automatically detects Erase when it is installed on the unit and activated in the Security Settings Menu.

Information Button

Clicking this button will bring up a screen that shows Logicube Technical Support contact information.



CellDEK TEK Information Screen

It also allows the user to insert his or her company logo into the printed reports.

1. On the user's PC, rename the logo to **LOGO.jpg**. Make sure that it is less than 1MB in size.

NOTE: The logo's name is case sensitive, so it needs to be written exactly as LOGO.jpg.

2. Copy the logo to the root directory of a USB storage device.
3. In the "About CellDEK" Screen, click the "Update Logo" button.
4. Insert the USB storage device into USB port #1.
5. Click the OK button.
6. The logo will be automatically copied to CellDEK TEK and overwrite any existing logo.

Technical Notes

Conflicting Driver Instructions

The CellDEK TEK's software installer has been developed to recognize if any of its device drivers already exist on a PC and if so, it does not reinstall them. However, some device drivers may already exist on your computer system due to pre-existing forensic tool installations or from previously installed handset applications created by various manufacturers.

Operating the CellDEK TEK on a computer containing these types of additional drivers can potentially cause what is referred to as a driver conflict. Conflicts between these existing drivers and the ones installed during the CellDEK TEK installation process could occasionally cause problems if not corrected.

Devices with conflicting drivers will report the following message.

Conflicting Device Driver Message

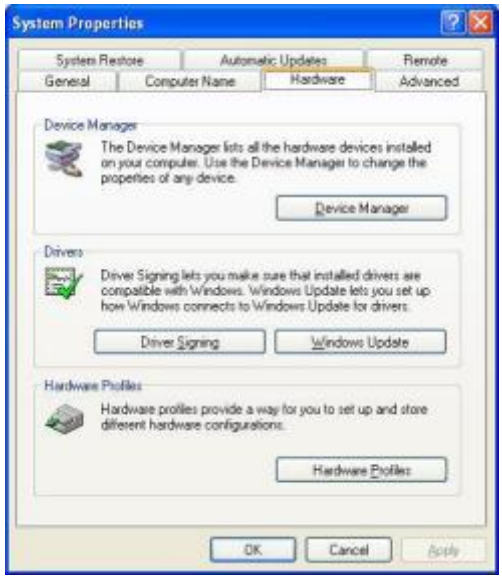
To fix this problem the conflicting driver already installed on your computer needs to be changed.

The driver will only need to be changed once per device model. The next time that model type is connected the correct driver will be used automatically.

How to Change Device Drivers

1. Click "Start", right-click ***My Computer*** and select ***Properties***.

2. Select the ***Hardware Tab***.


System Properties
System Restore
Automatic Updates
Remote
General
Computer Name
Hardware
Advanced
Device Manager
The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.
Device Manager
Drivers
Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers.
Driver Signing
Windows Update
Hardware Profiles
Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware Profiles
OK
Cancel
Apply

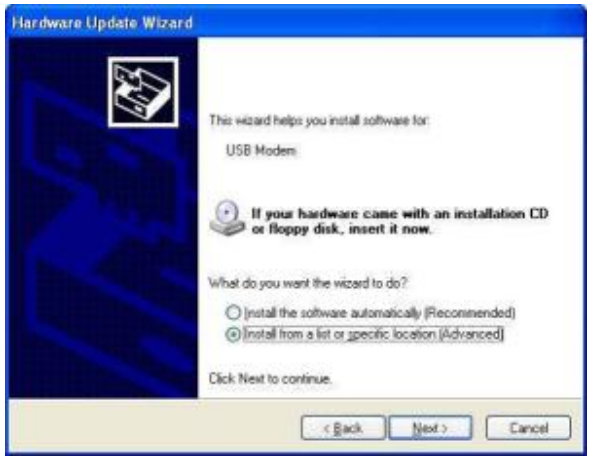
3. Click ***Device Manager***. In the list of devices go to the one whose driver you would like to change. Right-click the device's name and select ***Update Driver…***

- For Nokia devices look under “wireless communication devices”. and right click Nokia 'device type’ phone parent.
- For Sony Ericsson devices look under “Universal Serial Bus controllers” and right click Sony Ericsson Device ##.
- For Other devices, look under “Modems”.

4. On the first Hardware Update Wizard screen select ***No, not this time*** and click ***Next.***

Hardware Update Wizard
Welcome to the Hardware Update Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

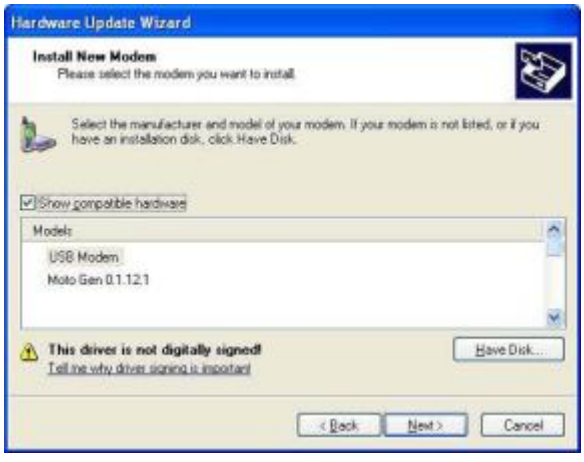
5. On the next Hardware Update Wizard screen select ***Install from a list or specific location*** and click ***Next***.


Hardware Update Wizard
This wizard helps you install software for:
USB Modem
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

6. On the next screen select ***Don't search. I will choose the driver to install*** and click ***Next***.

Hardware Update Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

7. The next screen will show a list of suitable drivers for the selected device. In the list a driver entry should appear with the name "[Manufacturer] Gen 0.1.12.1"– for example "Moto Gen 0.1.12.1". This is the driver required for use with CellDEK TEK. Select the driver name and click ***Next***.


Hardware Update Wizard
Install New Modem
Please select the modem you want to install.
Select the manufacturer and model of your modem. If your modem is not listed, or if you have an installation disk, click Have Disk.
Show compatible hardware
Models
USB Modem
Moto Gen 0.1.12.1
This driver is not digitally signed!
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

8. When installation is complete click ***Finish***.

The device manage list will now display a new entry under “LibUSB-Win32 Devices”. The device is now set up correctly to work with CellDEK TEK.

To change the drive back repeat this process but select the original driver at **Step 7**.

6. Glossary

Supported Manufacturers

CellDEK TEK is able to directly support many different wireless devices. Many of these major brands are supported now or will be in the near future:

- Nokia
- Motorola
- Sony Ericsson
- Samsung
- Siemens
- Audiovox
- Kyocera
- Palm
- LG
- Sanyo
- Blackberry
- Windows
- O2
- Sharp
- Thuraya
- Vodafone
- Apple iPhone
- Thuraya Satellite Phones
- TomTom Satellite Navigation Devices
- Garmin Satellite Navigation Devices

Glossary

SIM (Subscriber Identity Module) - Essentially a small computer on a card that sits within the mobile phone and controls various functions of call making. It also has enough memory to hold information such as ADN and SMS.

ADN (Abbreviated Dialing Numbers) - more commonly known as the phonebook or contacts.

SMS (Short Message Service) – SMS is a form of textual conversation permitted by a network carrier. The service allows a user to send and receive textual messages direct to their handsets. The storage capacity depends on the handset and SIM. The date and time of received messages is generated by the network, all other date and time stamps are generated from the handset time. The maximum character length is 160 per SMS. Some handsets allow longer messages to be compiled and therefore are split into relevant parts when sent, these messages are known as concatenated.

Deleted SMS (Short Message Service) - These are text messages that have been deleted from the SIM card by the cell phone user. However, most mobile phones do not remove the message, but mark the message to be overwritten by incoming messages from the network.

MMS (Multimedia Messaging Service) – A service which allows Multimedia messages to be sent from one mobile to another via one or more call centers or network providers. A Multimedia message is stored on the handset and can contain a combination of text, video clips, images and sound clips.

ICCID (Integrated Circuit Card Identifier) - The serial number of the SIM card stored electronically within the SIM. A similar number or shortened version is often found printed on the SIM card.

IMEI (International Mobile Equipment Identifier) - This is a unique number given to each handset. This is usually printed somewhere on the handset, (typically in the battery compartment) and stored electronically in the phone handset memory. It can be viewed typing *#06# on the keypad.

PIN (Personal Identification Number) - The SIM card has been locked against unauthorized access using the PIN number. When PIN security is activated, the correct PIN number must be entered in order to use any of the features of the handset (make calls, access ADN etc.) The only calls that can be made without a PIN are calls to the emergency services.

PUK (Personnel Unblocking Key) - If the PIN is unknown the PUK is used to unblock the SIM card and enable a new PIN code to be entered.

MSISDN (Mobile Station ISDN Number) - This number is the standard international number used to identify a given subscriber. However, the number stored in the MSISDN location on a SIM Card can be changed without affecting the actual telephone number. Therefore, the MSISDN number downloaded from the SIM card can only be used as an indicator.

IMSI (International Mobile Subscriber Identity) – This is a unique number allocated to each mobile phone subscriber, stored electronically within the SIM Card. It is used by the network to look up the telephone number associated to the SIM Card.

GSM (Global System for Mobile Communications) - A digital mobile telephone system that is widely used in Europe and other parts of the world. GSM uses a variation of time division multiple access (TDMA) and is the most widely used of the three digital wireless telephone technologies (TDMA, GSM, and CDMA).

CDMA (Code Division Multiple Access) - refers to any of several protocols used in so-called second-generation (2G) and third-generation (3G) wireless communications. As the term implies, CDMA is a form of multiplexing, which allows numerous signals to occupy a single transmission channel, optimizing the use of available bandwidth. The technology is used in ultra-high-frequency (UHF) cellular telephone systems in the 800-MHz and 1.9-GHz bands.

TDMA (Time Division Multiple Access) - is a technology used in digital cellular telephone communication that divides each cellular channel into three time slots in order to increase the amount of data that can be carried.

Cluster The smallest block of memory in a drive that can be written to individually by the file system.

Allocation table Table that keeps track of the contents of each cluster on the drive. The allocation table is used to combine clusters in the correct order to construct the files in the file system.

Allocated space Any cluster that is being used to store a file and has a written entry in the allocation table

Unallocated Space Any clusters that have an empty entry in the allocation table (i.e. are not assigned to any file) and are marked as being available for over writing by the file system.

Extant File A files that is still active in the file system and has appropriate entries in the allocation table to be reconstructed.

Contiguous File A file stored using clusters that are located next to each other in the drive's memory.

7. Supported Handsets

Handsets tested on CellDEK and the results verified

These handsets are assigned a green tick next to their image on CellDEK TEK.

The following handsets have been tested on CellDEK TEK using the standard validation procedures of Logicube. The results below display the data sets that can be extracted from CellDEK TEK for the specific handset. There may be additional data sets available from handsets and these will require further examination.

Key:

Phone ID		SMS	
Phone ID w timestamp		SMS w timestamp	
Contacts		MMS	**MMS**
Call Logs		Files	
Call Logs w timestamp		Organizer	

- Handsets that appear with no cable number assigned are supported via Infrared or Bluetooth methods.
- Cable Number 999 refers to the external Nokia CA-42 cable

No.	Manufacturer	Model	Phone ID	Contacts	Call Logs	Messages	Files	Organiser	Mobile Standard	Cable No.	Date Added
1	ACER	beTouch E101	✓	✓	✓	✓	✓	✓	GSM	9	Jan-10
2	ACER	F900	✓	✓	✓	✓	✓	✓	GSM	9	Jan-10
3	ACER	n50	✓	✓			✓	✓	GSM		Jul-06
4	ACER	X960	✓	✓	✓	✓	✓	✓	GSM	9	Oct-09
5	ALCATEL	OT-C707	✓	✓	✓	✓	✓		GSM		Apr-08
6	AMOI	WP-S1	✓	✓		✓	✓	✓	GSM	9	Apr-09
7	ANDROID	G1	✓	✓	✓	✓	✓	✓	GSM	9	Jul-08
8	APPLE	iPhone	✓	✓	✓	✓	✓	✓	GSM	31	Oct-08

9	APPLE	iPhone 3G	☎	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	31	Oct-09
10	APPLE	iPhone 4	☎	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	31	May-11
11	APPLE	iPad	☎	🕮	☐	☐	☐	▤	N/A	31	Sep-12
12	BENQ	E72	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	9	Jan-09
13	BENQ	P50	☎ 🕘	🕮	◑ 🕘	✉	🗁	▤	GSM	9	Jul-06
14	BENQ SIEMENS	EF81	☎ 🕘	☐	◑	✉ 🕘	☐	☐	GSM		Apr-07
15	BENQ SIEMENS	S68	☎ 🕘	🕮	◑	✉	🗁	▤	GSM		Jul-06
16	BENQ SIEMENS	S88	☎	🕮	◑	✉ 🕘	☐	☐	GSM		Jul-07
17	BLACKBERRY	7230	☐	🕮	◑ 🕘	✉ 🕘	☐	▤	GSM	9	Apr-08
18	BLACKBERRY	7250	☐	🕮	◑ 🕘	✉ 🕘	☐	▤	GSM	9	Jul-07
19	BLACKBERRY	7290	☐	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	9	Jan-07
20	BLACKBERRY	8100	☎	🕮	◑ 🕘	✉ 🕘	☐	▤	GSM	9	Jul-07
21	BLACKBERRY	8120	☎	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	9	Jan-09
22	BLACKBERRY	8300	☎	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	9	Jan-09
23	BLACKBERRY	8310	☐	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	9	Jul-08
24	BLACKBERRY	8320	☐	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	9	Apr-08
25	BLACKBERRY	8330	☎	🕮	◑ 🕘	✉ 🕘	🗁	▤	CDMA	9	Jan-09
26	BLACKBERRY	8520	☎	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	26	Jan-10
27	BLACKBERRY	8800	☎	🕮	◑ 🕘	✉ 🕘	☐	▤	GSM	9	Jan-10
28	BLACKBERRY	8800	☎	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	9	Oct-08
29	BLACKBERRY	8820	☐	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	9	Apr-08
30	BLACKBERRY	8830	☎	🕮	◑ 🕘	✉ 🕘	☐	▤	CDMA	9	Oct-08
31	BLACKBERRY	8900	☎	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	26	Jul-09
32	BLACKBERRY	9000	☎	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	9	Jan-09
33	BLACKBERRY	9500	☎	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	26	Jul-09
34	BLACKBERRY	9530	☎	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	26	Jul-09
35	BLACKBERRY	9700	☎	🕮	◑ 🕘	✉ 🕘	☐	▤	GSM	26	Sep-10
36	BLACKBERRY	7100t	☐	🕮	◑ 🕘	☐	🗁	▤	GSM	9	Apr-06
37	BLACKBERRY	7100v	☐	🕮	◑ 🕘	✉ 🕘	☐	▤	GSM	9	Apr-06
38	BLACKBERRY	7100x	☐	🕮	◑ 🕘	✉ 🕘	☐	▤	GSM	9	Apr-06
39	BLACKBERRY	8700f	☐	🕮	◑ 🕘	✉ 🕘	☐	▤	GSM	9	Jan-07

40	BLACKBERRY	8700g							GSM	9	Jan-07
41	BLACKBERRY	8700v							GSM	9	Oct-07
42	BLACKBERRY	8707g							GSM	9	Oct-09
43	BLACKBERRY	8707v							GSM	9	Jul-07
44	BLACKBERRY	9780							GSM	26	Dec-11
45	BLACKBERRY	9800							GSM	26	Dec-11
46	BLACKBERRY	9650							GSM	26	Dec-11
47	DELL	AXIM X51v							GSM		Oct-06
48	E-TEN	P300B							GSM		Oct-07
49	GLOFIISH	M810							GSM	9	Oct-09
50	GLOFIISH	X600							GSM	9	Oct-08
51	HP	iPAQ 514							GSM	9	Oct-07
52	HP	iPAQ H5550							GSM		Jul-06
53	HP	iPAQ HW6915							GSM		Oct-06
54	HP	iPAQ rx1950							GSM		Jul-07
55	HP	iPAQ rz1710							GSM		Jul-06
56	HTC	Desire							GSM	26	May-11
57	HTC	EVO 4G							CDMA	26	May-11
58	HTC	Hero							GSM	9	Oct-09
59	HTC	Incredible							CDMA	26	May-11
60	HTC	Kaizer							GSM	9	Jan-08
61	HTC	Magic							GSM	9	Oct-09
62	HTC	NEXUS ONE							GSM	26	Dec-10
63	HTC	P3300							GSM	9	Oct-07
64	HTC	P3450							GSM	9	Jul-09
65	HTC	P3470							GSM	9	Oct-08
66	HTC	P5500							GSM	9	Oct-08
67	HTC	S310							GSM	9	Jul-07
68	HTC	S620							GSM	9	Oct-08
69	HTC	S710							GSM	9	Jul-08
70	HTC	S740							GSM	9	Jul-09

71	HTC	S743	☎	🕮	◑	✉	🗁	▯	GSM	18	Dec-10
72	HTC	Shadow	☎	🕮	◑	✉	🗁	▯	GSM	9	Oct-08
73	HTC	SMT5800	☎	🕮	◑	✉	🗁	▯	CDMA	9	Sep-10
74	HTC	Snap	☎	🕮	◑	✉	🗁	▯	GSM	9	Oct-09
75	HTC	Tattoo		🕮	◑	✉	🗁		GSM	9	Jan-10
76	HTC	Tornado		🕮	◑	✉	🗁	▯	GSM	9	Jan-08
77	HTC	Touch		🕮	◑	✉	🗁	▯	GSM	9	Oct-07
78	HTC	TOUCH CRUISE	☎	🕮	◑	✉	🗁	▯	GSM	9	Apr-09
79	HTC	TOUCH DIMOND	☎	🕮	◑	✉	🗁	▯	GSM	9	Jul-09
80	HTC	Inspire		🕮	◑	✉	🗁		GSM	26	Dec 2011
81	HTC	ThunderBolt	☎	🕮	◑	✉	🗁		CDMA	26	Dec 2011
82	HTC	Sensation	☎	🕮	◑	✉	🗁		GSM	26	Apr-12
83	HTC	Amaze 4G	☎	🕮	◑	✉	🗁		GSM	26	Apr-12
84	HTC	Status	☎	🕮	◑	✉	🗁		GSM	26	Apr-12
85	HUAWEI	U8150	☎	🕮	◑	✉	🗁		GSM	26	Dec 2011
86	HUAWEI	M735	☎	🕮	◑	✉		▯	CDMA	26	Dec 2011
87	HUAWEI	U8800	☎	🕮	◑	✉	🗁		GSM	26	Apr-12
88	HUAWEI	M860	☎	🕮	◑		🗁		CDMA	26	Sep-12
89	IMATE	JAM		🕮	◑	✉	🗁	▯	GSM	9	Jul-06
90	IMATE	JAMin		🕮	◑	✉	🗁	▯	GSM	9	Jul-06
91	IMATE	JASJAR	☎	🕮	◑	✉	🗁	▯	GSM	9	Oct-06
92	IMATE	K-JAM		🕮	◑	✉	🗁	▯	GSM	9	Jul-06
93	IMATE	PDA2K	☎	🕮	◑	✉	🗁	▯	GSM		Jul-08
94	IMATE	SP3i	☎	🕮	◑	✉	🗁	▯	GSM	9	Jul-06
95	IMATE	SP5	☎	🕮	◑	✉	🗁	▯	GSM	9	Jul-06
96	IMATE	SPL	☎	🕮	◑	✉	🗁	▯	GSM	9	Jul-07
97	KYOCERA	K323	☎	🕮		✉	🗁		CDMA		Jan-09
98	KYOCERA	K342	☎	🕮		✉	🗁		CDMA		Jan-09
99	KYOCERA	K404	☎	🕮	◑	✉			CDMA	3	Jul-06
100	KYOCERA	K9	☎	🕮		✉	🗁		CDM	3	Jan-09

									A		
101	KYOCERA	KX1	☎	🕮	□	✉	🗁	□	CDM A	3	Jan-09
102	KYOCERA	KX160	☎	🕮	□	✉	🗁	□	CDM A	3	Jan-09
103	KYOCERA	KX5	☎	🕮	□	✉	🗁	□	CDM A		Jan-09
104	KYOCERA	KX9a	☎	🕮	□	✉	🗁	□	CDM A	3	Jan-09
105	KYOCERA	S1300	☎	🕮	□	✉	🗁	▤	CDM A	26	Sep-10
106	KYOCERA	S4000	☎	🕮	□	✉	🗁	▤	CDM A	26	Sep-10
107	KYOCERA	SE47	☎	🕮	◑ 🕘	✉	□	□	CDM A	19	Jul-06
108	KYOCERA	M1400	☎	🕮	□	✉ 🕘	□	▤	CDM A	26	Dec 2011
109	LG	A7110	☎ 🕘	🕮	◑	□	□	▤	GSM	5	Jul-06
110	LG	AX380	☎	🕮	◑ 🕘	✉ 🕘	🗁	□	CDM A	27	Jul-09
111	LG	C1300i	☎	🕮	□	✉ 🕘	□	▤	GSM	19	Jan-07
112	LG	C1500	☎	🕮	□	✉ 🕘	□	▤	GSM	19	Jan-07
113	LG	C2000	☎	🕮	□	✉ 🕘	□	▤	GSM	19	Jan-07
114	LG	C2500	☎ 🕘	□	◑ 🕘	✉ 🕘	□	□	GSM	9	Jul-10
115	LG	CE500	☎ 🕘	🕮	◑	□	□	□	GSM	5	Jul-06
116	LG	CG225	☎	🕮	□	✉ 🕘	□	▤	GSM	19	Jan-07
117	LG	CG300	☎	🕮	□	✉ 🕘	□	▤	GSM	19	Jan-07
118	LG	F2500	☎ 🕘	🕮	□	✉ 🕘	🗁	▤	GSM		Apr-08
119	LG	F9100	☎	🕮	□	✉ 🕘	□	▤	GSM	19	Jan-07
120	LG	F9200	☎	🕮	□	✉ 🕘	□	▤	GSM	19	Jan-07
121	LG	G4020	☎	🕮	□	✉ 🕘	□	▤	GSM	19	Apr-08
122	LG	G4050	☎	🕮	□	✉ 🕘	□	▤	GSM	19	Jan-07
123	LG	GD900	☎	🕮	□	✉ 🕘	🗁	▤	GSM	26	Jan-10
124	LG	GS170	☎ 🕘	🕮	□	✉ 🕘	□	□	GSM	26	Dec-10
125	LG	GT365	☎ 🕘	🕮	□	✉ 🕘	□	▤	GSM	27	Sep-10
126	LG	GT950 (Arena)	☎ 🕘	□	□	✉ 🕘	🗁	□	GSM	26	May-11
127	LG	GW300	☎	🕮	□	✉ 🕘	🗁	▤	GSM	26	Jan-10
128	LG	GW520	☎	🕮	□	✉ 🕘	🗁	▤	GSM	26	Jan-10
129	LG	GW820 (Expo)	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	26	May-11
130	LG	KC550	☎	🕮	□	✉	🗁	▤	GSM	27	Oct-08

131	LG	KC780							GSM	27	Oct-09
132	LG	KC910							GSM	27	Apr-09
133	LG	KE500							GSM	27	Oct-08
134	LG	KE770							GSM	27	Apr-08
135	LG	KE800							GSM	27	Apr-08
136	LG	KE820							GSM	27	Apr-08
137	LG	KE850							GSM	27	Apr-08
138	LG	KE970							GSM	27	Apr-08
139	LG	KF510							GSM	27	Jan-09
140	LG	KF600							GSM	27	Jan-09
141	LG	KG200							GSM	9	Sep-10
142	LG	KG300							GSM	9	Sep-10
143	LG	KG320							GSM	27	Jul-07
144	LG	KG800							GSM	27	Oct-06
145	LG	KG810							GSM	27	Apr-08
146	LG	KG920							GSM	5	Oct-06
147	LG	KM710							GSM	27	Oct-08
148	LG	KM900							GSM		Jan-10
149	LG	KP170							GSM	27	Jan-10
150	LG	KP500							GSM	27	Apr-09
151	LG	KU990							GSM	27	Apr-09
152	LG	L1150							GSM	19	Apr-08
153	LG	L1200							GSM	19	Jan-07
154	LG	L1400i							GSM	19	Jan-07
155	LG	LG6190							CDMA	6	Sep-10
156	LG	LX150							CDMA	27	Apr-08
157	LG	LX160							CDMA	27	Apr-08
158	LG	LX550							CDMA	6	Apr-08
159	LG	LX5550							CDMA	5	Oct-07
160	LG	MM535							CDM	6	Apr-06

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161	LG	MN240 (Imprint)	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	26	May-11
162	LG	MT310	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	26	Dec-10
163	LG	P7200	☎ 🕘	🕮	◑	□	🗁	🗏	GSM	5	Apr-06
164	LG	PM225	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	6	Apr-06
165	LG	PM325	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	6	Apr-06
166	LG	S5200	☎ 🕘	🕮	◑	□	🗁	🗏	GSM	5	Apr-06
167	LG	U8110	☎	🕮	□	✉ 🕘	□	🗏	GSM	5	Apr-09
168	LG	U8120	☎	🕮	□	✉ 🕘	🗁	🗏	GSM	5	Apr-09
169	LG	U8130	☎	🕮	□	✉ 🕘	□	🗏	GSM	5	Apr-09
170	LG	U8138	☎	🕮	□	✉ 🕘	□	🗏	GSM	5	Apr-09
171	LG	U8360	☎	🕮	□	✉ 🕘	🗁	🗏	GSM	5	Apr-09
172	LG	U8380	☎	🕮	□	✉ 🕘	□	🗏	GSM	5	Apr-09
173	LG	UN430	☎	🕮	□	✉ 🕘	🗁	□	CDMA	26	Dec-10
174	LG	UX260	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	27	Oct-09
175	LG	UX300	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	26	Dec-10
176	LG	UX355	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	6	Jul-07
177	LG	UX390	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	6	Jul-07
178	LG	UX4750	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	6	Jan-08
179	LG	UX5000	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	6	Jan-08
180	LG	VI125	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	6	Apr-06
181	LG	VX10000	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	27	Jan-09
182	LG	VX4500	☎	🕮	◑ 🕘	✉	🗁	🗏	CDMA	19	Jul-06
183	LG	VX4600	☎	🕮	◑ 🕘	✉	🗁	🗏	CDMA	19	Jul-06
184	LG	VX4700	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	6	Apr-06
185	LG	VX5200	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	6	Apr-06
186	LG	VX5300	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	GSM	21	Oct-06
187	LG	VX5400	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	27	Jan-09
188	LG	VX5500	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	26	Sep-10
189	LG	VX5600	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗏	CDMA	26	Dec-10

190	LG	VX6000	☎	🕮	◑ 🕘	✉	🗁	🗎	CDMA	5	Jul-06
191	LG	VX6100	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	6	Apr-06
192	LG	VX6190	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	6	Sep-10
193	LG	VX7000	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	6	Jul-06
194	LG	VX8000	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	6	Jul-06
195	LG	VX8100	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	6	Apr-06
196	LG	VX8300	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	21	Oct-06
197	LG	VX8350	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	27	Apr-08
198	LG	VX8500	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	27	Oct-08
199	LG	VX8575	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	26	Sep-10
200	LG	VX8610	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	26	Oct-09
201	LG	VX8700	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	27	Jan-09
202	LG	VX8800	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	27	Jan-09
203	LG	VX9100	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	26	Jan-09
204	LG	VX9200	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	26	Dec-10
205	LG	VX9400	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	27	Apr-08
206	LG	VX9700	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	26	Dec-10
207	LG	VX9800	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	6	Jan-07
208	LG	VX9900	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	27	Oct-08
209	LG	P509	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁		GSM	26	Dec 2011
210	LG	KS20	☎ 🕘	🕮	◑ 🕘	✉	🗁	🗎	GSM	27	Dec 2011
211	LG	VS750	☎ 🕘	🕮	◑ 🕘	✉	🗁	🗎	CDMA	26	Dec 2011
212	LG	UX310	☎	🕮	◑ 🕘	✉ 🕘		🗎	CDMA	26	Dec 2011
213	LG	MT375	☎	🕮	◑ 🕘	✉ 🕘	🗁	🗎	CDMA	26	Dec 2011
214	LG	VN530	☎	🕮	◑ 🕘		🗁	🗎	CDMA	26	Dec 2011
215	LG	P505	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁		GSM	26	Apr-12
216	LG	C729	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁		GSM	26	Apr-12
217	LG	LG670	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁		CDMA	26	Apr-12
218	LG	AX145	☎	🕮				🗎	CDMA	19	Apr-12
219	LG	P925	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁		GSM	26	Apr-12

220	LG	P930	☎	🕮	◑	✉	🗁	▯	GSM	26	Apr-12
221	LOBSTER	700TV	▯	🕮	◑	✉	🗁	▮	GSM	9	Jan-08
222	MIO	A501	☎	🕮	◑	✉	🗁	▮	GSM	9	Jul-09
223	MIO	A701	☎	🕮	◑	✉	🗁	▮	GSM	9	Apr-07
224	MOTOROLA	MB810 (DROID X)	☎	🕮	◑	✉	🗁	▯	CDMA	26	May-11
225	MOTOROLA	A555 (Devour)	☎	🕮	◑	✉	🗁	▯	CDMA	26	May-11
226	MOTOROLA	A835	☎	🕮	◑	✉	🗁	▮	GSM	24	Dec-05
227	MOTOROLA	A855	▯	🕮	◑	✉	🗁	▮	CDMA	26	Sep-10
228	MOTOROLA	C332	☎	🕮	◑	✉	▯	▮	GSM	9	Jul-07
229	MOTOROLA	C343	☎	🕮	◑	✉	▯	▮	CDMA	24	Apr-06
230	MOTOROLA	C350	☎	🕮	◑	✉	▯	▮	GSM	9	Apr-06
231	MOTOROLA	C385	☎	🕮	◑	✉	▯	▮	GSM	9	Dec-05
232	MOTOROLA	C390	☎	🕮	◑	✉	🗁	▮	GSM	9	Dec-05
233	MOTOROLA	C550	☎	🕮	◑	✉	▯	▮	GSM	9	Dec-05
234	MOTOROLA	C650	☎	🕮	◑	✉	🗁	▮	GSM	9	Dec-05
235	MOTOROLA	C975	☎	🕮	◑	✉	🗁	▮	GSM	24	Dec-05
236	MOTOROLA	E1	☎	🕮	◑	✉	🗁	▮	GSM	24	Apr-06
237	MOTOROLA	E1000	☎	🕮	◑	✉	🗁	▮	CDMA	24	Oct-06
238	MOTOROLA	E1070	☎	🕮	◑	✉	🗁	▮	GSM	9	Jan-07
239	MOTOROLA	E398	☎	🕮	◑	✉	🗁	▮	GSM	24	Dec-05
240	MOTOROLA	E8	☎	🕮	▯	✉	🗁	▯	GSM		Jan-10
241	MOTOROLA	E815	☎	🕮	◑	✉	▯	▮	CDMA		Oct-06
242	MOTOROLA	K1	☎	🕮	◑	✉	🗁	▮	GSM	9	Oct-07
243	MOTOROLA	K1m	☎	🕮	◑	✉	🗁	▮	CDMA		Apr-07
244	MOTOROLA	K3	☎	🕮	▯	✉	🗁	▮	GSM	9	Jul-07
245	MOTOROLA	L2	☎	🕮	◑	✉	▯	▮	GSM	9	Oct-06
246	MOTOROLA	L6	☎	🕮	◑	✉	🗁	▮	GSM	9	Apr-06
247	MOTOROLA	L7	☎	🕮	◑	✉	🗁	▮	GSM	9	Apr-06
248	MOTOROLA	maxx Ve	☎	🕮	◑	✉	▯	▮	CDMA		Jan-10
249	MOTOROLA	MPX200	☎	🕮	◑	✉	🗁	▮	GSM	9	Jul-06

250	MOTOROLA	MPX220	☎	🕮	◑	✉	🗁	▯	GSM	24	Jul-06
251	MOTOROLA	Q		🕮	◑	✉	🗁	▯	GSM	9	Jan-08
252	MOTOROLA	Q9h		🕮	◑	✉	🗁	▯	GSM	26	Apr-08
253	MOTOROLA	QA1	☎	🕮	◑	✉	🗁		GSM	26	Sep-10
254	MOTOROLA	T280i	☎	🕮	◑	✉		▯	GSM		Oct-06
255	MOTOROLA	T300p	☎	🕮	◑	✉		▯	CDMA	24	Dec-05
256	MOTOROLA	U6	☎	🕮	◑	✉	🗁	▯	GSM	9	Apr-06
257	MOTOROLA	V1050	☎	🕮	◑	✉	🗁	▯	GSM	24	Oct-06
258	MOTOROLA	V120c	☎	🕮	◑	✉			CDMA	24	Apr-06
259	MOTOROLA	V180	☎	🕮	◑	✉	🗁	▯	GSM	9	Dec-05
260	MOTOROLA	V188	☎	🕮	◑	✉	🗁	▯	GSM	9	Apr-06
261	MOTOROLA	V190	☎	🕮	◑	✉		▯	GSM	9	Jul-07
262	MOTOROLA	V195	☎	🕮	◑	✉		▯	GSM	9	Oct-06
263	MOTOROLA	V220	☎	🕮	◑	✉	🗁	▯	GSM	9	Apr-06
264	MOTOROLA	V235	☎	🕮	◑	✉	🗁		GSM	9	Jan-07
265	MOTOROLA	V260	☎	🕮	◑	✉		▯	CDMA	24	Jan-08
266	MOTOROLA	V265	☎	🕮	◑	✉		▯	CDMA	24	Apr-08
267	MOTOROLA	V3	☎	🕮	◑	✉	🗁	▯	GSM	9	Dec-05
268	MOTOROLA	V300	☎	🕮	◑	✉	🗁	▯	GSM	24	Dec-05
269	MOTOROLA	V360	☎	🕮	◑	✉	🗁	▯	GSM	9	Apr-06
270	MOTOROLA	V3a	☎	🕮	◑	✉	🗁	▯	CDMA	9	May-11
271	MOTOROLA	V3c	☎	🕮	◑	✉	🗁	▯	CDMA		Jan-10
272	MOTOROLA	V3i	☎	🕮	◑	✉	🗁	▯	GSM	9	Apr-06
273	MOTOROLA	V3m	☎	🕮	◑	✉		▯	CDMA		Apr-08
274	MOTOROLA	V3x	☎	🕮	◑	✉	🗁	▯	GSM	9	Jul-06
275	MOTOROLA	V3xx	☎	🕮	◑	✉	🗁	▯	GSM	9	Oct-09
276	MOTOROLA	V400	☎	🕮	◑	✉		▯	GSM	24	Jan-08
277	MOTOROLA	V500	☎	🕮	◑	✉		▯	GSM	24	Jul-08
278	MOTOROLA	V525	☎	🕮	◑	✉	🗁	▯	GSM	24	Dec-05
279	MOTOROLA	V540	☎	🕮	◑	✉		▯	GSM	24	Jul-07

280	MOTOROLA	V550	☎	🕮	◑	✉	🗁	▯	GSM	24	Apr-06
281	MOTOROLA	V551	☎	🕮	◑	✉	🗁	▯	GSM	24	Apr-06
282	MOTOROLA	V6	☎	🕮		✉	🗁	▯	GSM	9	Jul-07
283	MOTOROLA	V600	☎	🕮	◑	✉	🗁	▯	GSM		Dec-05
284	MOTOROLA	V60p	☎	🕮	◑	✉		▯	CDMA	24	Dec-05
285	MOTOROLA	V60v	☎	🕮	◑	✉		▯	CDMA	24	Jul-07
286	MOTOROLA	V620	☎	🕮	◑	✉	🗁	▯	GSM	24	Apr-06
287	MOTOROLA	V635	☎	🕮	◑	✉	🗁	▯	GSM	24	Dec-05
288	MOTOROLA	V65p	☎	🕮	◑	✉		▯	CDMA	24	Apr-08
289	MOTOROLA	V66i	☎	🕮	◑	✉		▯	GSM	24	Dec-05
290	MOTOROLA	V70	☎	🕮	◑	✉		▯	GSM	24	Dec-05
291	MOTOROLA	V710	☎	🕮	◑			▯	CDMA	24	Apr-06
292	MOTOROLA	V8	☎	🕮		✉	🗁		GSM		Jan-10
293	MOTOROLA	V80	☎	🕮	◑	✉	🗁	▯	GSM	24	Dec-05
294	MOTOROLA	V860 (Barrage)	☎	🕮	◑	✉	🗁	▯	CDMA	26	May-11
295	MOTOROLA	V9	☎	🕮	◑	✉	🗁	▯	GSM	26	Apr-08
296	MOTOROLA	V950	☎	🕮	◑	✉		▯	CDMA		Jan-10
297	MOTOROLA	V975	☎	🕮	◑	✉	🗁	▯	GSM	24	Jul-08
298	MOTOROLA	V980	☎	🕮	◑	✉	🗁	▯	GSM	24	Dec-05
299	MOTOROLA	V9m	☎	🕮	◑	✉	🗁	▯	CDMA		Apr-08
300	MOTOROLA	VE240	☎	🕮	◑	✉	🗁	▯	CDMA	9	May-11
301	MOTOROLA	W385	☎	🕮	◑	✉	🗁	▯	CDMA		Apr-08
302	MOTOROLA	W450	☎	🕮	◑		🗁	▯	GSM		Oct-09
303	MOTOROLA	W510	☎	🕮	◑	✉	🗁		GSM	9	Jan-08
304	MOTOROLA	W755	☎	🕮	◑	✉	🗁		CDMA		Jan-10
305	MOTOROLA	W840 (Quantico)	☎	🕮	◑	✉	🗁	▯	CDMA	26	May-11
306	MOTOROLA	Z3	☎	🕮	◑	✉	🗁	▯	GSM	9	Apr-07
307	MOTOROLA	Z6	☎	🕮		✉	🗁		GSM		Jan-10
308	MOTOROLA	Z6m	☎	🕮		✉	🗁	▯	CDMA		Apr-08
309	MOTOROLA	Z6tv	☎	🕮	◑	✉	🗁		CDMA		Sep-10

310	MOTOROLA	Z8	☎	🕮		✉			GSM		Jul-08
311	MOTOROLA	Z9	☎	🕮	◑	✉	🗁		GSM	26	Apr-09
312	MOTOROLA	ZN4	☎	🕮	◑	✉	🗁		CDMA		Jan-10
313	MOTOROLA	MB860	☎	🕮	◑	✉	🗁		GSM	26	Dec 2011
314	MOTOROLA	XT610	☎	🕮	◑	✉	🗁		CDMA	26	Dec 2011
315	MOTOROLA	MB865	☎	🕮	◑	✉	🗁		GSM	26	Sep-12
316	NDRIVE	S300	☎	🕮	◑	✉	🗁		GSM	9	Apr-09
317	NEO	808i	☎	🕮	◑	✉			GSM		Jan-09
318	NOKIA	1100	☎	🕮	◑	✉			GSM	25(CD-NOK1)	Oct-07
319	NOKIA	1101	☎	🕮	◑	✉			GSM	25(CD-NOK1)	Oct-07
320	NOKIA	1110	☎	🕮	◑	✉			GSM	25(CD-NOK2)	Oct-07
321	NOKIA	1112	☎	🕮	◑	✉			GSM	25(CD-NOK2)	Oct-07
322	NOKIA	1200	☎	🕮	◑	✉			GSM	25(CD-NOK1)	Jan-08
323	NOKIA	1208	☎	🕮	◑	✉			GSM	25(CD-NOK1)	Jan-08
324	NOKIA	1209	☎	🕮	◑	✉			GSM	25(CD-NOK1)	Apr-09
325	NOKIA	1600	☎	🕮	◑	✉			GSM	25(CD-NOK2)	Oct-07
326	NOKIA	2100		🕮	◑	✉			GSM	25(CD-NOK3)	Oct-07
327	NOKIA	2285	☎	🕮	◑				CDMA	999	Oct-06
328	NOKIA	2300	☎	🕮	◑	✉			GSM	25(CD-NOK1)	Oct-07
329	NOKIA	2310	☎	🕮	◑	✉			GSM	25(CD-NOK2	Oct-07

										)	
330	NOKIA	2600	☎	🕮	◑	✉	🗁	▯	GSM		Jul-08
331	NOKIA	2610	☎	🕮	◑	▯	▯	▯	GSM	25(CD-NOK2)	Oct-07
332	NOKIA	2626	☎	🕮	◑	▯	▯	▯	GSM	25(CD-NOK2)	Oct-07
333	NOKIA	2630	☎	🕮	◑	✉	🗁	▯	GSM		Apr-08
334	NOKIA	2650	☎	🕮	◑	✉	🗁	▮	GSM	25(CD-NOK6)	Oct-07
335	NOKIA	2652	☎	🕮	◑	✉	🗁	▮	GSM	25(CD-NOK6)	Oct-07
336	NOKIA	2680	☎	🕮	◑	✉	🗁	▯	GSM		Jan-09
337	NOKIA	2760	☎	🕮	◑	✉	🗁	▯	GSM		Jan-08
338	NOKIA	3100	☎	🕮	◑	✉	🗁	▯	GSM	999	Oct-06
339	NOKIA	3109	☎	🕮	◑	✉	🗁	▯	GSM	9	Oct-07
340	NOKIA	3110	☎	🕮	◑	✉	🗁	▯	GSM	9	Jul-07
341	NOKIA	3120	☎	🕮	◑	✉	🗁	▮	GSM	999	Jul-08
342	NOKIA	3200	▯	🕮	◑	✉	🗁	▮	GSM	999	Apr-06
343	NOKIA	3210	▯	🕮	◑	✉	▯	▯	GSM	25(CD-NOK8)	Oct-07
344	NOKIA	3220	☎	🕮	◑	✉	🗁	▯	GSM	999	Apr-07
345	NOKIA	3230	☎	🕮	◑	✉	🗁	▮	GSM	12	Apr-07
346	NOKIA	3250	☎	🕮	◑	✉	🗁	▯	GSM	12	Apr-07
347	NOKIA	3310	▯	🕮	◑	✉	▯	▯	GSM	25(CD-NOK9)	Oct-07
348	NOKIA	3330	▯	🕮	◑	▯	▯	▯	GSM	25(CD-NOK9)	Jan-08
349	NOKIA	3410	▯	🕮	◑	✉	▯	▯	GSM	25(CD-NOK9)	Oct-07
350	NOKIA	3510	☎	🕮	◑	✉	▯	▮	GSM	25(CD-	Jan-08

										NOK5)	
351	NOKIA	3555	☎	📖	◑	✉	🗁	▯	CDM A	26	Oct-08
352	NOKIA	5000	☎	📖	◑	✉	🗁	▯	GSM		Oct-08
353	NOKIA	5070	☎	📖	◑	✉	🗁	▯	GSM	999	Jul-07
354	NOKIA	5100	☎	📖	◑	✉	🗁	▮	GSM	999	Dec-05
355	NOKIA	5110	☎	📖	◑	✉	▯	▯	GSM	25(CD - NOK7)	Oct-07
356	NOKIA	5140	☎	📖	◑	✉	🗁	▯	GSM	999	Jul-08
357	NOKIA	5200	☎	📖	◑	✉	🗁	▯	GSM	9	Apr-07
358	NOKIA	5210	☎	📖	◑	✉	▯	▯	GSM		Apr-07
359	NOKIA	5220	☎	📖	◑	✉	🗁	▯	GSM	26	Oct-08
360	NOKIA	5230	☎	📖	◑	✉	🗁	▮	GSM	26	Sep-10
361	NOKIA	5300	☎	📖	◑	✉	🗁	▯	GSM	9	Apr-07
362	NOKIA	5310	☎	📖	◑	✉	🗁	▯	GSM	26	Jan-08
363	NOKIA	5320	☎	📖	◑	✉	🗁	▮	GSM	26	Jan-09
364	NOKIA	5500	☎	📖	◑	✉	🗁	▮	GSM	12	Apr-07
365	NOKIA	5610	☎	📖	◑	✉	🗁	▯	GSM	26	Apr-08
366	NOKIA	5700	☎	📖	◑	✉	🗁	▯	GSM	9	Jul-07
367	NOKIA	5800	☎	📖	◑	✉	🗁	▮	GSM	26	Jul-09
368	NOKIA	6010	☎	📖	◑	✉	▯	▮	GSM	25(CD - NOK5)	Oct-07
369	NOKIA	6020	☎	📖	◑	✉	🗁	▯	GSM	999	Dec-05
370	NOKIA	6021	☎	📖	◑	✉	🗁	▯	GSM	999	Apr-06
371	NOKIA	6030	☎	📖	◑	✉	▯	▮	GSM	25(CD - NOK2)	Oct-07
372	NOKIA	6060	☎	📖	◑	✉	▯	▮	GSM	25(CD - NOK2)	Oct-07
373	NOKIA	6061	☎	📖	◑	✉	▯	▯	GSM	25(CD - NOK2)	Apr-08
374	NOKIA	6070	☎	📖	◑	✉	▯	▮	GSM	999	Oct-06

375	NOKIA	6080	☎	🕮	◑	✉	▯	▯	GSM	999	Jan-07
376	NOKIA	6085	☎	🕮	◑	✉	🗁	▯	GSM	12	Jul-07
377	NOKIA	6086	☎	🕮	◑	✉	🗁	▯	GSM	12	Apr-08
378	NOKIA	6100	☎	🕮	◑	✉	🗁	▮	GSM	999	Dec-05
379	NOKIA	6101	☎	🕮	◑	✉	🗁	▯	GSM	999	Dec-05
380	NOKIA	6103	☎	🕮	◑	✉	🗁	▮	GSM	999	Oct-06
381	NOKIA	6108	☎	🕮	◑	✉	🗁	▮	GSM	999	Oct-07
382	NOKIA	6111	☎	🕮	◑	✉	🗁	▯	GSM	12	Apr-06
383	NOKIA	6120	☎	🕮	◑	✉	🗁	▮	GSM	9	Jan-08
384	NOKIA	6125	☎	🕮	◑	✉	🗁	▮	GSM	12	Oct-06
385	NOKIA	6130	☎	🕮	◑	✉	▯	▯	GSM	25(CD-NOK7)	Oct-07
386	NOKIA	6131	☎	🕮	◑	✉	🗁	▯	GSM	12	Jul-06
387	NOKIA	6136	☎	🕮	◑	✉	🗁	▯	GSM	12	Jan-07
388	NOKIA	6150	☎	🕮	◑	✉	▯	▯	GSM	25(CD-NOK7)	Oct-07
389	NOKIA	6151	☎	🕮	◑	✉	🗁	▯	GSM	12	Oct-06
390	NOKIA	6170	☎	🕮	◑	✉	🗁	▯	GSM	12	Dec-05
391	NOKIA	6200	☎	🕮	◑	✉	🗁	▮	GSM	999	Jul-07
392	NOKIA	6210	☎	🕮	◑	✉	🗁	▮	GSM	26	Jul-09
393	NOKIA	6210	☎	🕮	◑	✉	▯	▮	GSM	25(CD-NOK7)	Oct-07
394	NOKIA	6220	☎	🕮	◑	✉	🗁	▯	GSM	999	Dec-05
395	NOKIA	6225	☎	🕮	◑	✉	🗁	▮	CDMA	999	Jul-07
396	NOKIA	6230	☎	🕮	◑	✉	🗁	▯	GSM	12	Apr-06
397	NOKIA	6233	☎	🕮	◑	✉	🗁	▮	GSM	12	Oct-06
398	NOKIA	6234	☎	🕮	◑	✉	🗁	▯	GSM	12	Jul-07
399	NOKIA	6260	☎	🕮	◑	✉	🗁	▮	GSM	12	Jan-07
400	NOKIA	6263	☎	🕮	◑	✉	🗁	▯	CDMA	9	Oct-08
401	NOKIA	6267	☎	🕮	◑	✉	🗁	▯	GSM	9	Jan-08
402	NOKIA	6270	☎	🕮	◑	✉	🗁	▯	GSM	12	Jul-06

403	NOKIA	6280	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	12	Apr-06
404	NOKIA	6282	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	12	Jul-07
405	NOKIA	6288	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	12	Jul-07
406	NOKIA	6290	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	9	Oct-07
407	NOKIA	6300	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	9	Jul-07
408	NOKIA	6301	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	9	Jan-09
409	NOKIA	6310	☎ 🕘	📖	🕘	✉ 🕘		📱	GSM		Apr-06
410	NOKIA	6360		📖	🕘	✉ 🕘		📱	CDMA	25(CD-NOK7)	Oct-07
411	NOKIA	6510	☎ 🕘	📖	🕘	✉		📱	GSM		Apr-07
412	NOKIA	6555	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	26	Jan-08
413	NOKIA	6610	☎ 🕘	📖	🕘	✉ 🕘		📱	GSM	999	Apr-06
414	NOKIA	6620	☎ 🕘	📖	🕘	✉ 🕘	🗁	📱	GSM	12	Apr-07
415	NOKIA	6630	☎ 🕘	📖	🕘	✉ 🕘	🗁	📱	GSM		Jan-08
416	NOKIA	6650	☎ 🕘	📖	🕘	✉ 🕘	🗁	📱	GSM	26	Jul-09
417	NOKIA	6670	☎ 🕘	📖	🕘	✉ 🕘	🗁	📱	GSM	12	Jan-07
418	NOKIA	6680	☎ 🕘	📖	🕘	✉ 🕘	🗁	📱	GSM	12	Jan-07
419	NOKIA	6790	☎ 🕘	📖	🕘	✉ 🕘	🗁	📱	GSM	26	Sep-10
420	NOKIA	6800	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	999	Oct-07
421	NOKIA	6810	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	999	Jul-07
422	NOKIA	6820	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	999	Apr-06
423	NOKIA	6822	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	999	Dec-05
424	NOKIA	7020	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	26	Dec-10
425	NOKIA	7110	☎ 🕘	📖	🕘	✉ 🕘		📱	GSM	25(CD-NOK7)	Oct-07
426	NOKIA	7200	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	999	Oct-06
427	NOKIA	7210	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	26	Jan-09
428	NOKIA	7210	☎ 🕘	📖	🕘	✉ 🕘	🗁	📱	GSM	999	Dec-05
429	NOKIA	7260	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	999	Apr-06
430	NOKIA	7270	☎ 🕘	📖	🕘	✉ 🕘	🗁		GSM	12	Dec-05

431	NOKIA	7280	☎	🕮	◑	✉	🗁	▯	GSM		Dec-05
432	NOKIA	7360	☎	🕮	◑	✉	🗁	▯	GSM	999	Apr-06
433	NOKIA	7370	☎	🕮	◑	✉	🗁	▯	GSM	12	Apr-06
434	NOKIA	7373	☎	🕮	◑	✉	🗁	▯	GSM	12	Apr-07
435	NOKIA	7380	☎	🕮	◑	✉	🗁	▯	GSM		Apr-06
436	NOKIA	7390	☎	🕮	◑	✉	🗁	▯	GSM	9	Apr-07
437	NOKIA	7500	☎	🕮	◑	✉	🗁	▯	GSM	9	Jan-08
438	NOKIA	7510	☎	🕮	◑	✉	🗁	▯	GSM	26	Jul-09
439	NOKIA	7600	☎	🕮	◑	✉	🗁	▮	GSM	12	Dec-05
440	NOKIA	7610	☎	🕮	◑	✉	🗁	▮	GSM	12	Jan-07
441	NOKIA	7900	☎	🕮	◑	✉	🗁	▯	GSM	26	Apr-08
442	NOKIA	8210	☎	🕮	◑	✉	▯	▯	GSM	25(CD-NOK3)	Apr-07
443	NOKIA	8310	☎	🕮	◑	✉	▯	▮	GSM		Apr-07
444	NOKIA	8800	☎	🕮	◑	✉	🗁	▯	GSM		Dec-05
445	NOKIA	8850	☎	🕮	◑	✉	▯	▯	GSM		Apr-07
446	NOKIA	8910	☎	🕮	◑	✉	▯	▮	GSM		Dec-05
447	NOKIA	1110i	☎	🕮	◑	✉	▯	▮	GSM	25(CD-NOK2)	Oct-07
448	NOKIA	2323 Classic	☎	🕮	◑	✉	🗁	▯	GSM		Oct-09
449	NOKIA	2330 Classic	☎	🕮	◑	✉	🗁	▯	GSM		Oct-09
450	NOKIA	2700 Classic	☎	🕮	◑	✉	🗁	▯	GSM	26	Oct-09
451	NOKIA	2720 Fold	☎	🕮	◑	✉	🗁	▯	GSM		Jan-10
452	NOKIA	2730 Classic	☎	🕮	◑	✉	🗁	▯	GSM	26	Jan-10
453	NOKIA	2865i	☎	🕮	◑	✉	🗁	▯	CDMA	12	Jan-08
454	NOKIA	3120 Classic	☎	🕮	◑	✉	🗁	▯	GSM	26	Apr-09
455	NOKIA	3155i	☎	🕮	◑	✉	🗁	▯	CDMA	12	Apr-08
456	NOKIA	3500 classic	☎	🕮	◑	✉	🗁	▯	GSM	9	Jan-08
457	NOKIA	3510i	☎	🕮	◑	✉	▯	▮	GSM	25(CD-NOK5)	Oct-07
458	NOKIA	3600 Slide	☎	🕮	◑	✉	🗁	▯	GSM	26	Oct-08

459	NOKIA	3720 Classic	☎	🕮	◑	✉	🗁	▯	GSM	26	Jan-10
460	NOKIA	5130 Xpress Music	☎	🕮	◑	✉	🗁	▯	GSM	26	Oct-09
461	NOKIA	5140i	☎	🕮	◑	✉	▯	▯	GSM	999	Dec-05
462	NOKIA	5530 Xpress Music	☎	🕮	◑	✉	🗁	▮	GSM	26	Oct-09
463	NOKIA	5630 Xpress Music	☎	🕮	◑	✉	🗁	▮	GSM	26	Oct-09
464	NOKIA	5730 Xpress Music	☎	🕮	◑	✉	🗁	▮	GSM	26	Oct-09
465	NOKIA	6015i	☎	🕮	◑	✉	🗁	▮	CDMA	999	Oct-06
466	NOKIA	6030b	☎	🕮	◑	✉	▯	▯	GSM	25(CD-NOK2)	Jan-10
467	NOKIA	6110 Navigator	☎	🕮	◑	✉	🗁	▯	GSM	9	Oct-07
468	NOKIA	6124c	☎	🕮	◑	✉	🗁	▮	GSM	9	Jan-09
469	NOKIA	6155i	☎	🕮	◑	✉	🗁	▯	CDMA	12	Apr-08
470	NOKIA	6165i	☎	🕮	◑	✉	🗁	▯	CDMA	12	Jan-07
471	NOKIA	6208 Classic	☎	🕮	◑	✉	🗁	▯	GSM	26	Oct-09
472	NOKIA	6212 Classic	☎	🕮	◑	✉	🗁	▯	GSM	26	Oct-09
473	NOKIA	6220 Classic	☎	🕮	◑	✉	🗁	▮	GSM	26	Apr-09
474	NOKIA	6230i	☎	🕮	◑	✉	▯	▯	GSM	12	Apr-06
475	NOKIA	6235i	☎	🕮	◑	▯	🗁	▯	CDMA	12	Apr-06
476	NOKIA	6255i	☎	🕮	◑	▯	🗁	▯	CDMA	12	Apr-06
477	NOKIA	6260 Slide	☎	🕮	◑	✉	🗁	▯	GSM	26	Oct-09
478	NOKIA	6265i	☎	🕮	◑	✉	🗁	▯	CDMA	12	Jan-08
479	NOKIA	6275i	☎	🕮	◑	✉	🗁	▯	GSM	12	Apr-08
480	NOKIA	6303 Classic	☎	🕮	◑	✉	🗁	▯	GSM	26	Oct-09
481	NOKIA	6310i	☎	🕮	◑	✉	▯	▮	GSM		Apr-07
482	NOKIA	6500 classic	☎	🕮	◑	✉	🗁	▯	GSM	26	Jan-08
483	NOKIA	6500 Slide	☎	🕮	◑	✉	🗁	▯	GSM	26	Apr-08
484	NOKIA	6600 fold	☎	🕮	◑	✉	🗁	▯	GSM	26	Jan-09
485	NOKIA	6600 slide	☎	🕮	◑	✉	🗁	▯	GSM	26	Jan-09
486	NOKIA	6600i Slide	☎	🕮	◑	✉	🗁	▯	GSM	26	Jan-10
487	NOKIA	6610i	☎	🕮	◑	✉	🗁	▮	GSM	999	Dec-05

488	NOKIA	6700 Classic	☎	🕮	◑	✉	🗁	▯	GSM	26	Jan-10
489	NOKIA	6720 Classic	☎	🕮	◑	✉	🗁	▮	GSM	26	Oct-09
490	NOKIA	6730 Classic	☎	🕮	◑	✉	🗁	▮	GSM	26	Oct-09
491	NOKIA	6760 Slide	☎	🕮	◑	✉	🗁	▮	GSM	26	Jan-10
492	NOKIA	7100 Supernova	☎	🕮	◑	✉	🗁	▯	GSM		Apr-09
493	NOKIA	7250i	☎	🕮	◑	✉	🗁	▮	GSM	999	Dec-05
494	NOKIA	7310 Supernova	☎	🕮	◑	✉	🗁	▯	GSM	26	Oct-08
495	NOKIA	7610 Supernova	☎	🕮	◑	✉	🗁	▯	GSM	26	Oct-08
496	NOKIA	8600 Luna	☎	🕮	◑	✉	🗁	▯	GSM	26	Oct-08
497	NOKIA	8910i	☎	🕮	◑	✉	▯	▮	GSM		Dec-05
498	NOKIA	E50	☎	🕮	◑	✉	🗁	▯	GSM	12	Apr-07
499	NOKIA	E51	☎	🕮	◑	✉	🗁	▯	GSM	9	Apr-08
500	NOKIA	E55	☎	🕮	◑	✉	🗁	▮	GSM	26	Jan-10
501	NOKIA	E60	☎	🕮	◑	✉	🗁	▮	GSM	12	Apr-07
502	NOKIA	E61	☎	🕮	◑	✉	🗁	▯	GSM	12	Apr-07
503	NOKIA	E63	☎	🕮	◑	✉	🗁	▮	GSM	26	Apr-09
504	NOKIA	E65	☎	🕮	◑	✉	🗁	▮	GSM	12	Apr-07
505	NOKIA	E66	☎	🕮	◑	✉	🗁	▯	GSM	26	Oct-08
506	NOKIA	E70	☎	🕮	◑	✉	🗁	▯	GSM	12	Apr-07
507	NOKIA	E71	☎	🕮	◑	✉	🗁	▮	GSM	26	Oct-08
508	NOKIA	E75	☎	🕮	◑	✉	🗁	▮	GSM	26	Jul-09
509	NOKIA	N70	☎	🕮	◑	✉	🗁	▮	GSM	12	Jan-07
510	NOKIA	N71	☎	🕮	◑	✉	🗁	▯	GSM	12	Jul-07
511	NOKIA	N72	☎	🕮	◑	✉	🗁	▮	GSM	12	Jan-07
512	NOKIA	N73	☎	🕮	◑	✉	🗁	▮	GSM	12	Apr-07
513	NOKIA	N76	☎	🕮	◑	✉	🗁	▮	GSM	9	Jul-07
514	NOKIA	N77	☎	🕮	◑	✉	🗁	▮	GSM	12	Oct-08
515	NOKIA	N79	☎	🕮	◑	✉	🗁	▮	GSM	26	Jan-09
516	NOKIA	N80	☎	🕮	◑	✉	🗁	▯	GSM	12	Apr-07
517	NOKIA	N81 8GB	☎	🕮	◑	✉	🗁	▮	GSM	26	Apr-08

518	NOKIA	N82	☎	🕮	◑	✉	🗁	▯	GSM	26	Jul-08
519	NOKIA	N85	☎	🕮	◑	✉	🗁	▯	GSM	26	Apr-09
520	NOKIA	N90	☎	🕮	◑	✉	🗁	▯	GSM	12	Jan-07
521	NOKIA	N91	☎	🕮	◑	✉	🗁	▯	GSM	9	Apr-07
522	NOKIA	N93	☎	🕮	◑	✉	🗁	▯	GSM	12	Apr-08
523	NOKIA	N93i	☎	🕮	◑	✉	🗁	▯	GSM	12	Jul-07
524	NOKIA	N95	☎	🕮	◑	✉	🗁	▯	GSM	9	Jan-08
525	NOKIA	N95 8GB	☎	🕮	◑	✉	🗁	▯	GSM	9	Jul-08
526	NOKIA	N96	☎	🕮	◑	✉	🗁	▯	GSM	26	Oct-08
527	NOKIA	N97	☎	🕮	◑	✉	🗁	▯	GSM	26	Oct-09
528	NOKIA	N97 mini	☎	🕮	◑	✉	🗁	▯	GSM	26	Sep-10
529	NOKIA	X3	☎	🕮	◑	✉	🗁	□	GSM	26	Dec-10
530	NOKIA	X6	☎	🕮	◑	✉	🗁	▯	GSM	26	May-11
531	NOKIA	6350	☎	🕮	◑	✉	🗁	□	GSM	26	Dec 2011
532	NOKIA	X2-01	☎	🕮	◑	✉	🗁	□	GSM	26	Dec 2011
533	O2	ICE	☎	🕮	□	✉	🗁	▯	GSM	5	Oct-07
534	O2	XDA	□	🕮	◑	✉	🗁	▯	GSM		Jul-06
535	O2	XDA IIi	□	🕮	◑	✉	🗁	▯	GSM		Jul-06
536	ORANGE	SPV C500	□	🕮	◑	✉	🗁	▯	GSM	9	Jul-06
537	ORANGE	SPV C550	□	🕮	◑	✉	🗁	▯	GSM	9	Jul-06
538	ORANGE	SPV C600	☎	🕮	◑	✉	🗁	▯	GSM	9	Jul-06
539	PALM	700P	□	🕮	◑	✉	□	▯	CDMA	11	Jan-10
540	PALM	Centro	□	🕮	◑	□	□	▯	GSM	11	Jan-09
541	PALM	Treo 500	☎	🕮	◑	✉	🗁	▯	GSM	9	Jan-09
542	PALM	Treo 680	□	🕮	◑	□	□	▯	GSM	11	Apr-08
543	PALM	Treo 750	☎	🕮	◑	□	🗁	▯	GSM		Jul-07
544	PALM	Treo Pro	☎	🕮	◑	✉	🗁	▯	GSM	9	Jan-09
545	PANTECH	P8000	☎	🕮	◑	✉	🗁	□	GSM	26	Apr-12
546	SAGEM	my302X	☎	🕮	◑	✉	🗁	▯	GSM		Apr-07
547	SAGEM	my401C	☎	🕮	◑	✉	🗁	▯	GSM		Jan-08
548	SAGEM	my401V	☎	🕮	◑	✉	🗁	▯	GSM		Apr-07

549	SAGEM	my401X	☎	🕮	◑	✉	🗁	▯	GSM		Apr-07
550	SAGEM	my411C	☎	🕮	◑	✉		▯	GSM		Jan-08
551	SAGEM	my411Cv	☎	🕮	◑	✉		▯	GSM		Jan-08
552	SAGEM	my411X	☎	🕮	◑	✉	🗁	▯	GSM		Jan-08
553	SAGEM	my501C	☎	🕮	◑	✉		▯	GSM		Apr-07
554	SAGEM	my511X	☎	🕮	◑	✉		▯	GSM		Jan-08
555	SAGEM	my600v	☎	🕮	◑	✉		▯	GSM		Jul-07
556	SAGEM	my700X	☎	🕮	◑	✉	🗁	▯	GSM		Apr-07
557	SAGEM	myV-55	☎	🕮	◑	✉		▯	GSM		Jan-08
558	SAGEM	myV-65	☎	🕮	◑	✉		▯	GSM		Jan-08
559	SAGEM	myX5-2	☎	🕮	◑	✉		▯	GSM		Jan-08
560	SAGEM	myX-6	☎	🕮	◑	✉	🗁	▯	GSM		Jan-08
561	SAMSUNG	B2100	☎	🕮	◑	✉	🗁	▯	GSM	29	Jul-09
562	SAMSUNG	B2700	☎	🕮		✉	🗁	▯	GSM	29	Apr-09
563	SAMSUNG	B3310	☎	🕮		✉	🗁	▯	GSM	26	Oct-09
564	SAMSUNG	B5702	☎	🕮	◑	✉	🗁	▯	GSM	29	Oct-09
565	SAMSUNG	B7300	☎	🕮	◑	✉	🗁	▯	GSM	26	Jan-10
566	SAMSUNG	C3050	☎	🕮		✉	🗁	▯	GSM	29	Jul-09
567	SAMSUNG	C6625	☎	🕮	◑	✉	🗁	▯	GSM	29	Oct-09
568	SAMSUNG	E1360	☎	🕮	◑	✉	🗁	▯	GSM		Oct-09
569	SAMSUNG	E2210	☎	🕮	◑	✉	🗁	▯	GSM		Oct-09
570	SAMSUNG	I8000	☎	🕮	◑	✉	🗁	▯	GSM	26	Jan-10
571	SAMSUNG	i8510	☎	🕮	◑	✉	🗁	▯	GSM		Apr-09
572	SAMSUNG	M3200	☎	🕮	◑	✉	🗁	▯	GSM	29	Jan-10
573	SAMSUNG	M7500	☎	🕮		✉	🗁	▯	GSM	26	Jul-09
574	SAMSUNG	M7600	☎	🕮		✉	🗁	▯	GSM	26	Jul-09
575	SAMSUNG	M8800	☎	🕮		✉	🗁	▯	GSM	29	Apr-09
576	SAMSUNG	S3030	☎	🕮		✉	🗁	▯	GSM	29	Oct-09
577	SAMSUNG	S3100	☎	🕮	◑	✉	🗁	▯	GSM	29	Jan-10
578	SAMSUNG	S3500	☎	🕮		✉	🗁	▯	GSM	29	Apr-09

579	SAMSUNG	S3600	☎	🕮	◑	✉	🗁	▯	GSM		Jan-10
580	SAMSUNG	S3650	☎	🕮		✉	🗁	▯	GSM	29	Jan-10
581	SAMSUNG	S5050	☎	🕮	◑	✉	🗁	▯	GSM	29	Oct-09
582	SAMSUNG	S5230	☎	🕮		✉	🗁	▯	GSM	29	Oct-09
583	SAMSUNG	S5600	☎	🕮		✉	🗁	▯	GSM	26	Oct-09
584	SAMSUNG	S7220	☎	🕮		✉	🗁	▯	GSM	26	Jul-09
585	SAMSUNG	S7330	☎	🕮		✉	🗁	▯	GSM	29	Apr-09
586	SAMSUNG	S8000	☎	🕮		✉	🗁	▯	GSM	26	Oct-09
587	SAMSUNG	S8300	☎	🕮		✉	🗁	▯	GSM	26	Jul-09
588	SAMSUNG	SCH-A310	☎	🕮		✉		▯	CDMA	13	Apr-06
589	SAMSUNG	SCH-A530	☎	🕮		✉		▯	CDMA	13	Apr-06
590	SAMSUNG	SCH-A570	☎	🕮		✉		▯	CDMA	13	Oct-06
591	SAMSUNG	SCH-A630	☎	🕮		✉		▯	CDMA	23	Oct-06
592	SAMSUNG	SCH-A650	☎	🕮		✉		▯	CDMA	13	Apr-06
593	SAMSUNG	SCH-A670	☎	🕮		✉			CDMA	13	Apr-06
594	SAMSUNG	SCH-A795	☎	🕮	◑	✉		▯	CDMA	23	Apr-08
595	SAMSUNG	SCH-A850	☎	🕮	◑	✉	🗁	▯	CDMA	23	Apr-08
596	SAMSUNG	SCH-A870	☎	🕮	◑	✉		▯	CDMA	23	Apr-08
597	SAMSUNG	SCH-A930	☎	🕮	◑	✉	🗁	▯	CDMA	23	Apr-08
598	SAMSUNG	SCH-A950	☎	🕮	◑	✉	🗁	▯	CDMA	23	Apr-08
599	SAMSUNG	SCH-A990	☎	🕮	◑	✉	🗁	▯	CDMA	23	Apr-08
600	SAMSUNG	SCH-i220	☎	🕮	◑	✉	🗁	▯	CDMA	26	May-11
601	SAMSUNG	SCH-i600		🕮		✉	🗁	▯	GSM		Jul-06
602	SAMSUNG	SCH-i730	☎	🕮	◑	✉	🗁	▯	CDMA		Jul-06
603	SAMSUNG	SCH-i760	☎	🕮	◑	✉	🗁	▯	GSM	30	Jul-08
604	SAMSUNG	SCH-i920	☎	🕮	◑	✉	🗁	▯	CDMA	26	Dec-10
605	SAMSUNG	SCH-R450	☎	🕮	◑	✉		▯	CDMA	29	Jul-09
606	SAMSUNG	SCH-U340	☎	🕮	◑	✉	🗁	▯	CDMA	23	Jul-09
607	SAMSUNG	SCH-U350	☎	🕮	◑	✉	🗁	▯	CDMA	29	Dec-10
608	SAMSUNG	SCH-U410	☎	🕮	◑	✉	🗁	▯	CDMA	23	Apr-08

609	SAMSUNG	SCH-U650	☎	🕮	◑ 🕘	✉ 🕘	▯	▤	CDMA	29	Jul-09
610	SAMSUNG	SCH-U740	☎	🕮	◑ 🕘	✉ 🕘	🗁	▤	CDMA	22	Jan-10
611	SAMSUNG	SCH-U820	☎	🕮	◑ 🕘	✉ 🕘	🗁	▯	CDMA	26	Dec-10
612	SAMSUNG	SCH-U940	☎	🕮	◑ 🕘	✉ 🕘	▯	▤	CDMA	29	Jul-09
613	SAMSUNG	SGH-A177	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	29	Jan-10
614	SAMSUNG	SGH-A300	☎	🕮	◑ 🕘	▯	▯	▤	GSM	14	Dec-05
615	SAMSUNG	SGH-A517	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	29	Apr-08
616	SAMSUNG	SGH-A687	☎ 🕘	🕮	▯	✉ 🕘	🗁	▤	GSM	29	Dec-10
617	SAMSUNG	SGH-A707	☎	🕮	▯	▯	🗁	▤	GSM	22	Jan-08
618	SAMSUNG	SGH-A717	☎	🕮	◑	▯	🗁	▤	GSM	22	Jan-08
619	SAMSUNG	SGH-A727	☎	🕮	◑	▯	🗁	▤	GSM	22	Jan-08
620	SAMSUNG	SGH-A737	☎	🕮	▯	✉ 🕘	🗁	▤	GSM	29	Oct-08
621	SAMSUNG	SGH-A747	☎ 🕘	🕮	▯	✉ 🕘	🗁	▤	GSM	29	Oct-08
622	SAMSUNG	SGH-A767	☎ 🕘	🕮	▯	✉ 🕘	🗁	▤	GSM	29	Jul-09
623	SAMSUNG	SGH-A777	☎ 🕘	🕮	▯	✉ 🕘	🗁	▤	GSM	29	Dec-10
624	SAMSUNG	SGH-A827	☎ 🕘	🕮	▯	✉ 🕘	🗁	▤	GSM	29	Oct-08
625	SAMSUNG	SGH-A837	☎ 🕘	🕮	▯	✉ 🕘	🗁	▤	GSM	29	Jul-09
626	SAMSUNG	SGH-A877	☎ 🕘	🕮	▯	✉ 🕘	🗁	▤	GSM	29B	Dec-10
627	SAMSUNG	SGH-A887	☎ 🕘	🕮	▯	✉ 🕘	🗁	▤	GSM	29B	Dec-10
628	SAMSUNG	SGH-C100	☎	🕮	◑ 🕘	✉	▯	▤	GSM	14	Dec-05
629	SAMSUNG	SGH-C207	☎ 🕘	🕮	◑ 🕘	✉ 🕘	▯	▤	GSM	14	Jul-06
630	SAMSUNG	SGH-C225	☎ 🕘	🕮	◑ 🕘	✉	▯	▤	GSM	14	Dec-05
631	SAMSUNG	SGH-C300	☎ 🕘	🕮	◑ 🕘	✉ 🕘	▯	▤	GSM	14	Jan-08
632	SAMSUNG	SGH-D307	☎ 🕘	🕮	◑ 🕘	✉ 🕘	▯	▤	GSM	13	Jul-06
633	SAMSUNG	SGH-D357	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	13	Jul-07
634	SAMSUNG	SGH-D407	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM		Oct-07
635	SAMSUNG	SGH-D410	☎ 🕘	🕮	◑ 🕘	✉	▯	▤	GSM	14	Dec-05
636	SAMSUNG	SGH-D500	☎ 🕘	🕮	◑ 🕘	✉	🗁	▤	GSM	13	Dec-05
637	SAMSUNG	SGH-D520	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	22	Apr-07
638	SAMSUNG	SGH-D600	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	13	Apr-06
639	SAMSUNG	SGH-D720	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▤	GSM	5	Jul-07

640	SAMSUNG	SGH-D780	☎	🕮	◑	✉	🗁	▯	GSM	29	Jan-09
641	SAMSUNG	SGH-D800	☎	🕮	◑	✉	🗁	▯	GSM	22	Oct-06
642	SAMSUNG	SGH-D807	☎	🕮	◑	✉	🗁	▯	GSM	22	Apr-08
643	SAMSUNG	SGH-D820	☎	🕮	◑	✉	🗁	▯	GSM	22	Oct-06
644	SAMSUNG	SGH-D830	☎	🕮	◑	✉	🗁	▯	GSM	22	Apr-07
645	SAMSUNG	SGH-D840	☎	🕮	◑	✉	🗁	▯	GSM	22	Jul-07
646	SAMSUNG	SGH-D880	☎	🕮	◑	✉	🗁	▯	GSM	29	Jul-08
647	SAMSUNG	SGH-D900	☎	🕮	◑	✉	🗁	▯	GSM	22	Apr-07
648	SAMSUNG	SGH-D900i	☎	🕮	◑	✉	🗁	▯	GSM	22	Oct-07
649	SAMSUNG	SGH-D980	☎	🕮	◑	✉	□	▯	GSM	29	Apr-09
650	SAMSUNG	SGH-E105	☎	🕮	◑	✉	□	▯	GSM	14	Apr-06
651	SAMSUNG	SGH-E210	☎	🕮	□	✉	🗁	▯	GSM		Jan-08
652	SAMSUNG	SGH-E250	☎	🕮	◑	✉	🗁	▯	GSM	22	Apr-07
653	SAMSUNG	SGH-E330	☎	🕮	◑	✉	🗁	▯	GSM	20	Oct-06
654	SAMSUNG	SGH-E335	☎	🕮	◑	✉	🗁	▯	GSM	20	Oct-06
655	SAMSUNG	SGH-E350	☎	🕮	◑	✉	🗁	▯	GSM	13	Dec-05
656	SAMSUNG	SGH-E370	☎	🕮	◑	✉	🗁	▯	GSM	13	Jan-07
657	SAMSUNG	SGH-E390	☎	🕮	◑	✉	🗁	▯	GSM	22	Apr-07
658	SAMSUNG	SGH-E530	☎	🕮	◑	✉	🗁	□	GSM		Dec-05
659	SAMSUNG	SGH-E570	☎	🕮	◑	✉	🗁	□	GSM	22	Apr-07
660	SAMSUNG	SGH-E590	☎	🕮	◑	✉	🗁	▯	GSM	22	Oct-07
661	SAMSUNG	SGH-E600	☎	🕮	◑	✉	□	▯	GSM	14	Jul-07
662	SAMSUNG	SGH-E630	☎	🕮	◑	✉	🗁	▯	GSM	20	Apr-06
663	SAMSUNG	SGH-E700	☎	🕮	◑	✉	🗁	▯	GSM	20	Dec-05
664	SAMSUNG	SGH-E715	☎	🕮	◑	✉	□	▯	GSM	14	Oct-06
665	SAMSUNG	SGH-E720	☎	🕮	◑	✉	🗁	▯	GSM	5	Dec-05
666	SAMSUNG	SGH-E730	☎	🕮	◑	✉	🗁	▯	GSM	13	Dec-05
667	SAMSUNG	SGH-E740	☎	🕮	◑	✉	🗁	▯	GSM	22	Jan-08
668	SAMSUNG	SGH-E760	☎	🕮	◑	✉	🗁	▯	GSM	13	Dec-05
669	SAMSUNG	SGH-E770	☎	🕮	◑	✉	🗁	▯	GSM	13	Apr-06
670	SAMSUNG	SGH-E800	☎	🕮	◑	✉	🗁	▯	GSM	20	Dec-05

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671	SAMSUNG	SGH-E830	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	22	Apr-08
672	SAMSUNG	SGH-E840	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	22	Oct-07
673	SAMSUNG	SGH-E870	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	22	Oct-06
674	SAMSUNG	SGH-E880	☎ ◴	🕮	◑ ◴	✉ ◴	🗁		GSM		Jul-07
675	SAMSUNG	SGH-E900	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	22	Jan-07
676	SAMSUNG	SGH-E950	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	22	Jan-08
677	SAMSUNG	SGH-F110	☎ ◴	🕮	◑	✉ ◴		▯	GSM	29	Oct-08
678	SAMSUNG	SGH-F210	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM		Jan-08
679	SAMSUNG	SGH-F250	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	29	Jan-09
680	SAMSUNG	SGH-F300	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	22	Jul-07
681	SAMSUNG	SGH-F330	☎	🕮	◑	✉ ◴	🗁	▯	GSM	29	Jul-08
682	SAMSUNG	SGH-F400	☎ ◴	🕮	◑	✉ ◴	🗁	▯	GSM	29	Jul-08
683	SAMSUNG	SGH-F480	☎ ◴	🕮		✉ ◴	🗁	▯	GSM	29	Jan-09
684	SAMSUNG	SGH-F490	☎ ◴	🕮	◑	✉ ◴	🗁	▯	GSM	29	Jul-08
685	SAMSUNG	SGH-F500	☎	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	22	Oct-07
686	SAMSUNG	SGH-F700	☎ ◴	🕮		✉	🗁	▯	GSM	29	Apr-09
687	SAMSUNG	SGH-G400	☎ ◴	🕮		✉	🗁	▯	GSM	29	Apr-09
688	SAMSUNG	SGH-G600	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM		Jan-08
689	SAMSUNG	SGH-G800	☎	🕮	◑	✉ ◴	🗁	▯	GSM	29	Jul-08
690	SAMSUNG	SGH-G810	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	26	Apr-09
691	SAMSUNG	SGH-i200	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	29	Jan-09
692	SAMSUNG	SGH-i300	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	5	Oct-07
693	SAMSUNG	SGH-i320	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM		Jan-07
694	SAMSUNG	SGH-i325	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	29	Jan-09
695	SAMSUNG	SGH-i600	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	CDMA	9	Oct-07
696	SAMSUNG	SGH-i607	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	22	Jul-07
697	SAMSUNG	SGH-i617	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	29	Oct-08
698	SAMSUNG	SGH-i620	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	22	Jan-09
699	SAMSUNG	SGH-i710	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	22	Oct-07
700	SAMSUNG	SGH-i780	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	29	Jul-09

701	SAMSUNG	SGH-i900	☎	🕮	◑	✉	🗁	▯	GSM	29	Jan-09
702	SAMSUNG	SGH-J600	☎	🕮		✉	🗁	▯	GSM	22	Jan-08
703	SAMSUNG	SGH-J610	☎	🕮		✉	🗁	▯	GSM	29	Oct-08
704	SAMSUNG	SGH-J700	☎	🕮	◑	✉	🗁	▯	GSM	29	Jul-08
705	SAMSUNG	SGH-L700	☎	🕮		✉	🗁		GSM	29	Jan-10
706	SAMSUNG	SGH-L760	☎	🕮		✉	🗁	▯	GSM	29	Oct-08
707	SAMSUNG	SGH-L770	☎	🕮		✉	🗁	▯	GSM		Jan-09
708	SAMSUNG	SGH-M150	☎	🕮	◑	✉	🗁	▯	GSM	29	Oct-08
709	SAMSUNG	SGH-M610	☎	🕮	◑	✉		▯	GSM	29	Oct-08
710	SAMSUNG	SGH-P207	☎	🕮	◑	✉		▯	GSM	13	Oct-06
711	SAMSUNG	SGH-P300	☎	🕮		✉			GSM	22	Apr-06
712	SAMSUNG	SGH-P310	☎	🕮	◑	✉	🗁	▯	GSM	22	Apr-07
713	SAMSUNG	SGH-P400	☎	🕮	◑	✉		▯	GSM	14	Dec-05
714	SAMSUNG	SGH-P510	☎	🕮	◑	✉		▯	GSM		Dec-05
715	SAMSUNG	SGH-P520	☎	🕮	◑	✉	🗁	▯	GSM	29	Apr-08
716	SAMSUNG	SGH-P735	☎	🕮	◑	✉	🗁	▯	GSM	5	Dec-05
717	SAMSUNG	SGH-P777	☎	🕮	◑	✉		▯	GSM		Jul-06
718	SAMSUNG	SGH-P850	☎	🕮	◑	✉	🗁	▯	GSM	13	Oct-06
719	SAMSUNG	SGH-S300M	☎	🕮	◑	✉		▯	GSM	14	Oct-06
720	SAMSUNG	SGH-S307	☎	🕮	◑	✉		▯	GSM	14	Dec-05
721	SAMSUNG	SGH-S400i	☎	🕮	◑	✉	🗁		GSM	13	Apr-07
722	SAMSUNG	SGH-S401i	☎	🕮	◑	✉	🗁		GSM	13	Apr-07
723	SAMSUNG	SGH-T301	☎	🕮	◑	✉	🗁	▯	GSM	29	Jan-10
724	SAMSUNG	SGH-T309	☎	🕮	◑	✉	🗁	▯	GSM	13	Jul-06
725	SAMSUNG	SGH-T349	☎	🕮	◑	✉	🗁	▯	GSM		Jan-10
726	SAMSUNG	SGH-T369	☎	🕮	◑	✉	🗁	▯	GSM	26	May-11
727	SAMSUNG	SGH-T429	☎	🕮	◑	✉	🗁	▯	GSM	29	Jul-08
728	SAMSUNG	SGH-T439	☎	🕮	◑	✉	🗁	▯	GSM	29	Oct-08
729	SAMSUNG	SGH-T469	☎	🕮		✉	🗁	▯	GSM		Sep-10
730	SAMSUNG	SGH-T509	☎	🕮	◑	✉	🗁	▯	GSM	22	Jan-07
731	SAMSUNG	SGH-T539	☎	🕮	◑	✉	🗁	▯	GSM	29	Apr-08

732	SAMSUNG	SGH-T609	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	13	Jan-07
733	SAMSUNG	SGH-T639	☎	🕮	▯	✉ 🕘	🗁	▯	GSM	29	Oct-08
734	SAMSUNG	SGH-T719	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	13	Jan-07
735	SAMSUNG	SGH-T729	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	29	Apr-08
736	SAMSUNG	SGH-T739	☎ 🕘	🕮	◑	✉ 🕘	🗁	▯	GSM	29	Oct-08
737	SAMSUNG	SGH-T749	☎ 🕘	🕮	▯	✉ 🕘	🗁	▯	GSM	29	Dec-10
738	SAMSUNG	SGH-T809	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	22	Jul-06
739	SAMSUNG	SGH-T819	☎	🕮	▯	✉ 🕘	🗁	▯	GSM	29	Oct-08
740	SAMSUNG	SGH-T919	☎ 🕘	🕮	▯	✉ 🕘	🗁	▯	GSM	29	Jul-09
741	SAMSUNG	SGH-U100	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM		Jul-07
742	SAMSUNG	SGH-U600	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	22	Jul-07
743	SAMSUNG	SGH-U700	☎	🕮	◑	✉ 🕘	🗁	▯	GSM	22	Jan-08
744	SAMSUNG	SGH-U800	☎ 🕘	🕮	▯	✉ 🕘	🗁	▯	GSM	29	Jan-09
745	SAMSUNG	SGH-U900	☎ 🕘	🕮	◑	✉ 🕘	🗁	▯	GSM	29	Jul-08
746	SAMSUNG	SGH-X100	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	20	Oct-07
747	SAMSUNG	SGH-X427m	☎ 🕘	🕮	◑ 🕘	✉ 🕘	▯	▯	GSM	14	Apr-06
748	SAMSUNG	SGH-X450	☎ 🕘	🕮	◑ 🕘	✉	▯	▯	GSM	14	Dec-05
749	SAMSUNG	SGH-X460	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	20	Apr-07
750	SAMSUNG	SGH-X475	☎ 🕘	🕮	◑ 🕘	✉ 🕘	▯	▯	GSM	20	Oct-06
751	SAMSUNG	SGH-X495	☎ 🕘	🕮	◑	✉ 🕘	🗁	▯	GSM	20	Jul-08
752	SAMSUNG	SGH-X497	☎ 🕘	🕮	◑	✉ 🕘	🗁	▯	GSM	20	Jul-08
753	SAMSUNG	SGH-X500	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	13	Apr-08
754	SAMSUNG	SGH-X507	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	13	Apr-07
755	SAMSUNG	SGH-X530	☎ 🕘	🕮	◑ 🕘	✉ 🕘	▯	▯	GSM	14	Apr-07
756	SAMSUNG	SGH-X600	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	20	Oct-06
757	SAMSUNG	SGH-X640	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	20	Oct-06
758	SAMSUNG	SGH-X650	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	20	Jul-07
759	SAMSUNG	SGH-X660	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	13	Apr-07
760	SAMSUNG	SGH-X680	☎ 🕘	🕮	◑	✉ 🕘	🗁	▯	GSM	13	Jul-08
761	SAMSUNG	SGH-X700	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM		Oct-07

762	SAMSUNG	SGH-X820	☎	🕮	◑	✉	🗁	▯	GSM	22	Oct-06
763	SAMSUNG	SGH-X830	☎	🕮	◑	✉	🗁	▯	GSM	22	Apr-07
764	SAMSUNG	SGH-Z240	☎	🕮		✉	🗁	▯	GSM	22	Jul-08
765	SAMSUNG	SGH-Z320i	☎	🕮	◑	✉	🗁	▯	GSM	30	Apr-09
766	SAMSUNG	SGH-Z510	☎	🕮	◑	✉		▯	GSM	22	Jul-06
767	SAMSUNG	SGH-Z720	☎	🕮			🗁	▯	GSM	22	Jul-08
768	SAMSUNG	SPH-A513	☎	🕮	◑	✉		▯	CDMA	29	Jul-09
769	SAMSUNG	SPH-A580	☎	🕮		✉		▯	CDMA	13	Jan-07
770	SAMSUNG	SPH-A600	☎	🕮		✉		▯	CDMA	13	Jul-07
771	SAMSUNG	SPH-A620	☎	🕮					CDMA	13	Oct-06
772	SAMSUNG	SPH-A640	☎	🕮		✉		▯	CDMA	13	Jul-07
773	SAMSUNG	SPH-A660	☎	🕮		✉			CDMA	13	Apr-06
774	SAMSUNG	SPH-A680	☎	🕮		✉		▯	CDMA	13	Jul-07
775	SAMSUNG	SPH-A740	☎	🕮		✉			CDMA	13	Apr-06
776	SAMSUNG	SPH-A760	☎	🕮		✉			CDMA	13	Apr-06
777	SAMSUNG	SPH-A820	☎	🕮		✉		▯	CDMA	13	Apr-07
778	SAMSUNG	SPH-A840	☎	🕮		✉		▯	CDMA	13	Apr-06
779	SAMSUNG	SPH-A900	☎	🕮	◑	✉		▯	CDMA	13	Jul-08
780	SAMSUNG	SPH-A920	☎	🕮	◑	✉		▯	CDMA	13	Jul-08
781	SAMSUNG	SPH-A960	☎	🕮	◑	✉		▯	CDMA	13	Jul-08
782	SAMSUNG	SPH-M500	☎	🕮	◑	✉		▯	CDMA	13	Jul-08
783	SAMSUNG	SPH-M540	☎	🕮	◑	✉			CDMA	26	Jul-09
784	SAMSUNG	SPH-M610	☎	🕮	◑	✉	🗁	▯	CDMA	22	Dec-10
785	SAMSUNG	SGH-T959V	☎	🕮	◑	✉	🗁		GSM	26	Dec-12
786	SAMSUNG	SGH-T249	☎	🕮	◑		🗁	▯	GSM	26	Dec-12
787	SAMSUNG	SCH-i400	☎	🕮	◑	✉	🗁		CDMA	26	Apr-12
788	SAMSUNG	SPH-D700	☎	🕮	◑	✉	🗁		CDMA	26	Apr-12
789	SAMSUNG	SGH-T589	☎	🕮	◑	✉	🗁		GSM	26	Apr-12
790	SAMSUNG	SPH-M910	☎	🕮	◑	✉	🗁		CDMA	26	Apr-12
791	SAMSUNG	SCH-R350	☎	🕮	◑	✉		▯	CDMA	26	Apr-12

792	SAMSUNG	SGH-i727	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	26	Apr-12
793	SAMSUNG	SGH-i897	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	26	Apr-12
794	SAMSUNG	SGH-i997	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	26	Apr-12
795	SAMSUNG	SCH-i515	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	CDMA	26	Sep-12
796	SAMSUNG	GT-I9100	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	26	Sep-12
797	SHARP	FX PLUS	☎ 🕘	🕮	◑ 🕘	✉ 🕘	🗁	▯	GSM	26	May-12
798	SIEMENS	A60	☎ 🕘	🕮	◑	✉ 🕘	🗁	▯	GSM	16	Jul-08
799	SIEMENS	A65	☎ 🕘	🕮	◑	✉	▯	▯	GSM	16	Dec-05
800	SIEMENS	A75	☎ 🕘	🕮	◑	✉	🗁	▯	GSM	16	Apr-06
801	SIEMENS	C35	☎ 🕘	🕮	◑	✉ 🕘	▯	▮	GSM	17	Dec-05
802	SIEMENS	C35i	☎ 🕘	🕮	◑	✉ 🕘	▯	▯	GSM	17	Oct-06
803	SIEMENS	C55	☎ 🕘	▯	◑	✉ 🕘	▯	▯	GSM	16	Apr-06
804	SIEMENS	C60	☎ 🕘	▯	◑	✉ 🕘	🗁	▯	GSM	16	Apr-06
805	SIEMENS	C61	☎ 🕘	🕮	◑	✉	🗁	▯	GSM	16	Apr-06
806	SIEMENS	C62	☎ 🕘	🕮	◑ 🕘	✉ 🕘	▯	▯	GSM	16	Dec-05
807	SIEMENS	C65	☎ 🕘	🕮	◑	✉	🗁	▮	GSM	16	Dec-05
808	SIEMENS	C72	☎ 🕘	🕮	◑	✉	🗁	▮	GSM	16	Jul-06
809	SIEMENS	CF110	☎ 🕘	🕮	◑	✉	🗁	▮	GSM	16	Apr-06
810	SIEMENS	CF75	☎ 🕘	🕮	◑	✉	🗁	▮	GSM	16	Apr-06
811	SIEMENS	CL75	☎ 🕘	🕮	◑	✉	▯	▯	GSM	16	Apr-06
812	SIEMENS	CT66	☎ 🕘	🕮	◑ 🕘	✉	🗁	▮	GSM	16	Apr-06
813	SIEMENS	CX65	☎ 🕘	🕮	◑	✉	🗁	▮	GSM	16	Dec-05
814	SIEMENS	M55	☎ 🕘	🕮	◑	✉	🗁	▮	GSM	16	Jul-06
815	SIEMENS	M65	☎ 🕘	🕮	◑	✉	🗁	▮	GSM	16	Dec-05
816	SIEMENS	M75	☎ 🕘	🕮	◑	✉ 🕘	🗁	▮	GSM	16	Apr-06
817	SIEMENS	MC60	☎ 🕘	🕮	◑	✉	▯	▮	GSM	16	Dec-05
818	SIEMENS	ME45	☎ 🕘	🕮	◑	✉ 🕘	▯	▮	GSM	17	Jul-08
819	SIEMENS	ME75	☎ 🕘	🕮	◑	✉	🗁	▮	GSM	16	Apr-06
820	SIEMENS	S55	☎ 🕘	🕮	◑	✉	🗁	▮	GSM	16	Apr-06
821	SIEMENS	S65	☎ 🕘	🕮	◑	✉	🗁	▮	GSM	16	Dec-05
822	SIEMENS	S75	☎	🕮	◑	✉	🗁	▮	GSM	16	Apr-06

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823	SIEMENS	SF65	☎ ◴	🕮	◑	✉ ◴	🗁	🗏	GSM		Jul-06
824	SIEMENS	SK65	☎ ◴	🕮	◑	✉	🗁	🗏	GSM	16	Dec-05
825	SIEMENS	SL55	☎ ◴	🕮	◑	✉	🗁	🗏	GSM	16	Dec-05
826	SIEMENS	SL65	☎ ◴	🕮	◑	✉	🗁	🗏	GSM	16	Dec-05
827	SIEMENS	SP65	☎ ◴	🕮	◑	✉	□	🗏	GSM		Jul-09
828	SONIM	XP3	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM		Oct-09
829	SONY ERICSSON	C510	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Apr-09
830	SONY ERICSSON	C702	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM		Oct-08
831	SONY ERICSSON	C901	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Oct-09
832	SONY ERICSSON	C902	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM		Oct-08
833	SONY ERICSSON	C903	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Oct-09
834	SONY ERICSSON	C905	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Apr-09
835	SONY ERICSSON	D750i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Apr-06
836	SONY ERICSSON	F305	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	□	GSM		Oct-09
837	SONY ERICSSON	F500i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	2	Dec-05
838	SONY ERICSSON	G502	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Oct-08
839	SONY ERICSSON	G700	☎ ◴	🕮	◑ ◴	✉ ◴	□	□	GSM	18	Jan-09
840	SONY ERICSSON	G705	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Apr-09
841	SONY ERICSSON	G900	☎ ◴	🕮	◑ ◴	✉ ◴	□	□	GSM	18	Jan-09
842	SONY ERICSSON	J105i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Sep-10
843	SONY ERICSSON	J300i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	2	Dec-05
844	SONY ERICSSON	K300i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	2	Dec-05
845	SONY ERICSSON	K310i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Oct-06
846	SONY ERICSSON	K320i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Jan-09
847	SONY ERICSSON	K500i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	2	Dec-05
848	SONY ERICSSON	K510i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Jan-07
849	SONY ERICSSON	K530i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Jan-08
850	SONY ERICSSON	K550i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Jul-07
851	SONY ERICSSON	K550im	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	🗏	GSM	18	Jul-07

852	SONY ERICSSON	K600i	☎	🕮	◑	✉	🗁	▯	GSM	2	Dec-05
853	SONY ERICSSON	K608i	☎	🕮	◑	✉	🗁	▯	GSM	2	Oct-06
854	SONY ERICSSON	K610i	☎	🕮	◑	✉	🗁	▯	GSM	18	Oct-06
855	SONY ERICSSON	K630i	☎	🕮	◑	✉	🗁	▯	GSM	18	Jul-08
856	SONY ERICSSON	K660i	☎	🕮	◑	✉	🗁	▯	GSM	18	Jul-08
857	SONY ERICSSON	K700i	☎	🕮	◑	✉	🗁	▯	GSM	2	Dec-05
858	SONY ERICSSON	K750i	☎	🕮	◑	✉	🗁	▯	GSM	18	Dec-05
859	SONY ERICSSON	K770i	☎	🕮	◑	✉	🗁	▯	GSM	18	Jan-08
860	SONY ERICSSON	K800i	☎	🕮	◑	✉	🗁	▯	GSM	18	Jul-06
861	SONY ERICSSON	K810i	☎	🕮	◑	✉	🗁	▯	GSM	18	Jul-07
862	SONY ERICSSON	K850i	☎	🕮	◑	✉	🗁	▯	GSM	18	Jan-08
863	SONY ERICSSON	M600	☎	🕮	◑	✉	□	□	GSM	18	Jan-09
864	SONY ERICSSON	P1i	☎	🕮	◑	✉	□	□	GSM	18	Jan-09
865	SONY ERICSSON	P800	☎	🕮	□	✉	□	▯	GSM		Apr-08
866	SONY ERICSSON	P900i	☎	🕮	□	✉	□	▯	GSM		Jul-08
867	SONY ERICSSON	P990i	☎	🕮	◑	✉	□	□	GSM	18	Jan-09
868	SONY ERICSSON	S302	☎	🕮	◑	✉	🗁	□	GSM		Oct-09
869	SONY ERICSSON	S312	☎	🕮	◑	✉	🗁	□	GSM		Jan-10
870	SONY ERICSSON	S500i	☎	🕮	◑	✉	🗁	▯	GSM	18	Oct-07
871	SONY ERICSSON	S700i	☎	🕮	◑	✉	🗁	▯	GSM	2	Dec-05
872	SONY ERICSSON	S710a	☎	🕮	◑	✉	🗁	▯	GSM	2	Apr-06
873	SONY ERICSSON	T230	☎	🕮	◑	✉	□	□	GSM	2	Jul-07
874	SONY ERICSSON	T290i	☎	🕮	◑	✉	□	□	GSM	2	Dec-05
875	SONY ERICSSON	T300	☎	🕮	◑	✉	□	□	GSM	2	Dec-05
876	SONY ERICSSON	T310	☎	🕮	◑	✉	□	□	GSM	2	Dec-05
877	SONY ERICSSON	T610	☎	🕮	◑	✉	🗁	▯	GSM	2	Dec-05
878	SONY ERICSSON	T630	☎	🕮	◑	✉	🗁	▯	GSM	2	Dec-05
879	SONY ERICSSON	T650i	☎	🕮	◑	✉	🗁	▯	GSM	18	Jan-08
880	SONY ERICSSON	T68	☎	🕮	◑	✉	□	□	GSM	2	Dec-05
881	SONY	T68i	☎	🕮	◑	✉	□	▯	GSM	2	Oct-06

	ERICSSON		◴		◴	◴					
882	SONY ERICSSON	T700	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Jan-09
883	SONY ERICSSON	T707	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Oct-09
884	SONY ERICSSON	T715	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	18	Jan-10
885	SONY ERICSSON	TM506	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Dec-10
886	SONY ERICSSON	U100i Yari	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	18	Jan-10
887	SONY ERICSSON	U10i Aino	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	18	Jan-10
888	SONY ERICSSON	U1i Satio	☎ ◴	▯	◑	✉ ◴	🗁	▯	GSM		Jan-10
889	SONY ERICSSON	U5i (Vivaz)	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM	26	May-11
890	SONY ERICSSON	V600i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	2	Apr-06
891	SONY ERICSSON	V630i	☎ ◴	🕮	◑ ◴	✉	🗁	▮	GSM	18	Jul-07
892	SONY ERICSSON	V640i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Jul-08
893	SONY ERICSSON	V800	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	2	Dec-05
894	SONY ERICSSON	W200i	☎ ◴	🕮	◑ ◴	✉	🗁	▮	GSM	18	Jul-07
895	SONY ERICSSON	W300i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM		Jul-06
896	SONY ERICSSON	W302	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM		Oct-09
897	SONY ERICSSON	W350	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Oct-08
898	SONY ERICSSON	W380i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Jul-08
899	SONY ERICSSON	W395	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▯	GSM		Oct-09
900	SONY ERICSSON	W508	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Oct-09
901	SONY ERICSSON	W518A	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Dec-10
902	SONY ERICSSON	W550i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Dec-05
903	SONY ERICSSON	W580i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Oct-07
904	SONY ERICSSON	W595	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Jan-09
905	SONY ERICSSON	W610i	☎ ◴	🕮	◑ ◴	✉	🗁	▮	GSM	18	Jul-07
906	SONY ERICSSON	W660i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Jan-08
907	SONY ERICSSON	W705	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Apr-09
908	SONY ERICSSON	W710i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Oct-06
909	SONY ERICSSON	W760	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM		Oct-08
910	SONY ERICSSON	W800i	☎ ◴	🕮	◑ ◴	✉ ◴	🗁	▮	GSM	18	Dec-05

911	SONY ERICSSON	W810i	☎	🕮	◑	✉	🗁	▯	GSM	18	Jul-06
912	SONY ERICSSON	W850i	☎	🕮	◑	✉	🗁	▯	GSM	18	Oct-06
913	SONY ERICSSON	W880i	☎	🕮	◑	✉	🗁	▯	GSM	18	Apr-07
914	SONY ERICSSON	W890i	☎	🕮	◑	✉	🗁	▯	GSM	18	Jul-08
915	SONY ERICSSON	W900i	☎	🕮	◑	✉	🗁	▯	GSM	18	Apr-06
916	SONY ERICSSON	W902	☎	🕮	◑	✉	🗁	▯	GSM	18	Apr-09
917	SONY ERICSSON	W910i	☎	🕮	◑	✉	🗁	▯	GSM	18	Jan-08
918	SONY ERICSSON	W950i	☎	🕮	◑	✉	▯	▯	GSM	18	Jan-09
919	SONY ERICSSON	W960	☎	🕮	◑	✉	▯	▯	GSM	18	Jan-09
920	SONY ERICSSON	W980	☎	🕮	◑	✉	🗁	▯	GSM	18	Jan-09
921	SONY ERICSSON	W995	☎	🕮	◑	✉	🗁	▯	GSM	18	Oct-09
922	SONY ERICSSON	X1	☎	🕮	◑	✉	🗁	▯	GSM	9	Jan-09
923	SONY ERICSSON	X10	☎	🕮	◑	✉	🗁	▯	GSM	26	May-11
924	SONY ERICSSON	Z1010	☎	🕮	◑	✉	🗁	▯	GSM	2	Jul-07
925	SONY ERICSSON	Z310i	☎	🕮	◑	✉	🗁	▯	GSM	18	Jul-07
926	SONY ERICSSON	Z500a	☎	🕮	◑	✉	🗁	▯	GSM	2	Apr-06
927	SONY ERICSSON	Z520a	☎	🕮	◑	✉	🗁	▯	GSM	18	Oct-06
928	SONY ERICSSON	Z520i	☎	🕮	◑	✉	🗁	▯	GSM	18	Dec-05
929	SONY ERICSSON	Z530i	☎	🕮	◑	✉	🗁	▯	GSM	18	Jul-06
930	SONY ERICSSON	Z550i	☎	🕮	◑	✉	🗁	▯	GSM	18	Oct-06
931	SONY ERICSSON	Z555i	☎	🕮	◑	✉	🗁	▯	GSM	18	Jul-08
932	SONY ERICSSON	Z600	☎	🕮	◑	✉	🗁	▯	GSM	2	Dec-05
933	SONY ERICSSON	Z610i	☎	🕮	◑	✉	🗁	▯	GSM	18	Apr-07
934	SONY ERICSSON	Z710i	☎	🕮	◑	✉	🗁	▯	GSM	18	Apr-07
935	SONY ERICSSON	Z770	☎	🕮	◑	✉	🗁	▯	GSM		Oct-08
936	SONY ERICSSON	Z800i	☎	🕮	◑	✉	🗁	▯	GSM	2	Dec-05
937	T-MOBILE	MDA Vario II	▯	🕮	◑	✉	🗁	▯	GSM	9	Jul-08
938	TOSHIBA	G810	☎	🕮	◑	✉	🗁	▯	GSM	9	Jul-09
939	TOSHIBA	G910	☎	🕮	◑	✉	🗁	▯	GSM	9	Jul-09
940	TOSHIBA	Portege G500	☎	🕮	◑	✉	🗁	▯	GSM	9	Jul-07

941	TOSHIBA	Portege G710	☎ 🕘	🕮	🕘	✉ 🕘	🗁	🗎	GSM	9	Apr-09
942	UBiQUiO	401	☎ 🕘	🕮	🕘	✉ 🕘	🗁	🗎	GSM	9	Jul-07
943	UBiQUiO	501	☎ 🕘	🕮	🕘	✉ 🕘	🗁	🗎	GSM	9	Jul-07
944	VERIZON	XV6700		🕮	🕘	✉ 🕘	🗁	🗎	GSM	9	Oct-07
945	VISOA	Spiderphone	☎ 🕘		🕘	✉ 🕘	🗁		GSM		Jan-10
946	VODAFONE	527	☎ 🕘	🕮	🕘	✉ 🕘		🗎	GSM		Jul-09
947	VODAFONE	533	☎ 🕘	🕮	🕘	✉ 🕘		🗎	GSM		Jul-09
948	VODAFONE	710	☎	🕮		✉ 🕘	🗁	🗎	GSM		Oct-07
949	VODAFONE	725	☎	🕮		✉ 🕘	🗁	🗎	GSM		Jul-09
950	VODAFONE	810	☎ 🕘	🕮		✉ 🕘	🗁	🗎	GSM		Jul-08
951	VODAFONE	830	☎	🕮		✉ 🕘	🗁	🗎	GSM		Jul-09
952	ZTE	C78	☎	🕮		✉ 🕘	🗁	🗎	CDMA		Sep-10

Handsets – Expected Support

The following handsets have not been verified on CellDEK however their appearance or technology indicates that data extraction will be possible as shown by the icons on CellDEK. These handsets are assigned an amber tick. It is recommended that all data is treated as a minimum extraction as there may be additional data sets available that require further examination.

Data can be extracted from these handsets as normal by selecting the device from the Manufacturers list and extracting over Bluetooth, Infrared or Cable as required.

All Windows Mobile devices can be extracted using the PDA option and selecting Windows. All Windows Mobile devices are supported by Infrared and/or Cable.

MFG	MODEL	MFG	MODEL	MFG	MODEL
ACER	beTouch E100	ASUS	H502	AT&T	2125
ACER	beTouch E200	ASUS	M530W	AT&T	3125
ACER	c510	ASUS	M356	AT&T	5700
ACER	c530	ASUS	M930	AT&T	8125

ACER	c531	ASUS	Mars II	AT&T	8500		
ACER	DX650	ASUS	Mypal A626	AT&T	8525		
ACER	DX900	ASUS	MyPal A632	AT&T	SX56		
ACER	Liquid	ASUS	MyPal A636	AT&T	SX66		
ACER	M900	ASUS	MyPal A636N	AUDIOVOX	5050		
ACER	n10	ASUS	MyPal A639	AUDIOVOX	5600		
ACER	n30	ASUS	MyPal A686	AUDIOVOX	6601		
ACER	n35	ASUS	P305	AUDIOVOX	XV6600		
ACER	n300	ASUS	P320	AUDIOVOX	XV6700		
ACER	n310	ASUS	P505	BENQ-SIEMENS	P51		
ACER	n311	ASUS	P525	BLACKBERRY	8110		
ACER	n320	ASUS	P526	BLACKBERRY	8130 (Pearl)		
ACER	n321	ASUS	P527	BLACKBERRY	8220		
ACER	neoTouch	ASUS	P535	BLACKBERRY	8230 (Pearl)		
AIRIS	T610	ASUS	P550	BLACKBERRY	Pearl 3G 9100		
AIRIS	T620	ASUS	P552	BLACKBERRY	9105 (Pearl 3G)		
AIRO	A25	ASUS	P560	BLACKBERRY	Curve 3G 9300		
AMOI	E72	ASUS	P565	BLACKBERRY	9520		
AMOI	E75	ASUS	P735	BLACKBERRY	9550		
AMOI	E76	ASUS	P750	BLACKBERRY	9630		
AMOI	E78	ASUS	P835	BLACKBERRY	9650 (Bold)		
AMOI	E850	ASUS	V88i	BLACKBERRY	9670 (Style)		
AMOI	E860	ASUS	Z801	BLACKBERRY	Torch 9800		
AnexTEK	moboDA 3160	ASUS	Z810	BLACKBERRY	9900		
AnexTEK	moboDA 3360	ASUS	ZX1	CINGULAR	2125		
AnexTEK	moboDA 3380	AT Mobile	AT Bear	CINGULAR	3125		
AnexTEK	SP310	AT Mobile	AT Cobra	CINGULAR	8100		
Apple	iPod Touch	AT Mobile	AT Eagle	CINGULAR	8125		
Apple	iPhone 5	AT Mobile	AT Falcon	CINGULAR	SX66		
ASUS	A696	AT Mobile	AT Pelican	CINGULAR iPAQ	h6320		
ASUS	J501						
CINGULAR iPAQ	h6325	DOPOD	CHT 9100	FUJITSU SIEMENS	C550		
COMPAQ iPAQ	3800	DOPOD	D600	FUJITSU SIEMENS	N100		
COMPAQ iPAQ	3830	DOPOD	D802	FUJITSU SIEMENS	N110		

COMPAQ iPAQ	3835		DOPOD	D8110		FUJITSU SIEMENS	N500
COMPAQ iPAQ	3850		DOPOD	M700		FUJITSU SIEMENS	N520
COMPAQ iPAQ	3870		DOPOD	P100		FUJITSU SIEMENS	N520c
COMPAQ iPAQ	3875		DOPOD	P800W		FUJITSU SIEMENS	N520e
COMPAQ iPAQ	3900		DOPOD	S300		FUJITSU SIEMENS	N520p
COMPAQ iPAQ	3950		DOPOD	U1000		FUJITSU SIEMENS	N560
COMPAQ iPAQ	3955		E-PLUS	PDA III		FUJITSU SIEMENS	N560c
COMPAQ iPAQ	3970		E-PLUS	PDA IV		FUJITSU SIEMENS	N560e
COMPAQ iPAQ	3975		ETEN	600		FUJITSU SIEMENS	T810
DAXIAN	CU928		ETEN	600e		FUJITSU SIEMENS	T830
DELL	AXIM		ETEN	DX900		FUJITSU SIEMENS	V70
DELL	Pocket DJ 20GB		ETEN	E500		GARMIN-ASUS	Garminfone
DELL	Pocket DJ 30GB		ETEN	E900		GIGABYTE	g-Smart
DELL	X3		ETEN	G500		GIGABYTE	g-Smart i
DELL	X3i		ETEN	G500+		GIGABYTE	g-Smart i+
DELL	X30		ETEN	M500		GIGABYTE	g-Smart i120
DELL	X5		ETEN	M550		GIGABYTE	g-Smart i128
DELL	X50		ETEN	M600		GIGABYTE	g-Smart i300
DELL	X50v		ETEN	M600+		GIGABYTE	g-Smart i350
DELL	X51		ETEN	M700		GIGABYTE	g-Smart MS800
DOCOMO	htc Z		ETEN	M800		GIGABYTE	g-Smart MS802
DOPOD	310		ETEN	M810		GIGABYTE	g-Smart MS804
DOPOD	515		ETEN	N100		GIGABYTE	g-Smart MS808
DOPOD	535		ETEN	P100		GIGABYTE	g-Smart MS820
DOPOD	565		ETEN	P100w		GIGABYTE	g-Smart MW700
DOPOD	566		ETEN	P120		GIGABYTE	g-Smart MW702
DOPOD	575		ETEN	P300		GIGABYTE	g-Smart MW998
DOPOD	585		ETEN	P600		GIGABYTE	g-Smart q60
DOPOD	586		ETEN	P603		GIGABYTE	g-Smart S1200
DOPOD	595		ETEN	P610		GIGABYTE	g-Smart

							t600
DOPOD	686		ETEN	P700		GOOGLE	NEXUS 7
DOPOD	696		ETEN	P700i		HP iPAQ	114
DOPOD	699		ETEN	T470		HP iPAQ	214
DOPOD	700		ETEN	T500		HP iPAQ	500
DOPOD	710		ETEN	V900		HP iPAQ	510
DOPOD	818		ETEN	X500		HP iPAQ	512
DOPOD	830		ETEN	X500+		HP iPAQ	610c
DOPOD	838		ETEN	X600		HP iPAQ	614
DOPOD	900		ETEN	X610		HP iPAQ	614c
DOPOD	577W		ETEN	X650		HP iPAQ	9120c
DOPOD	586W		ETEN	X800		HP iPAQ	Glisten
DOPOD	696i		EVEREX	NEON		HP iPAQ	h1900
DOPOD	818 Pro		FITH MEDIA	A308		HP iPAQ	h1910
DOPOD	828+		FLY	IQ-110		HP iPAQ	h1915
DOPOD	838 Pro		FUJITSU SIEMENS	410		HP iPAQ	h1920
DOPOD	C500		FUJITSU SIEMENS	420		HP iPAQ	h1930
DOPOD	C720W		FUJITSU SIEMENS	600		HP iPAQ	h1935
DOPOD	C730		FUJITSU SIEMENS	710		HP iPAQ	h1937
DOPOD	C800		FUJITSU SIEMENS	718		HP iPAQ	h1940
DOPOD	C858		FUJITSU SIEMENS	720		HP iPAQ	h1945
DOPOD	CHT 9000		FUJITSU SIEMENS	610BT		HP iPAQ	h2200
HP iPAQ	h2210		HP iPAQ	hx2490		HTC	Galaxy
HP iPAQ	h2215		HP iPAQ	hx2495		HTC	Gene
HP iPAQ	h3630		HP iPAQ	hx2700		HTC	Harrier
HP iPAQ	h3670		HP iPAQ	hx2750		HTC	HD2
HP iPAQ	h3800		HP iPAQ	hx2790		HTC	Herald
HP iPAQ	h3830		HP iPAQ	hx2795		HTC	Hermes
HP iPAQ	h3835		HP iPAQ	hx4700		HTC	Himalaya
HP iPAQ	h3850		HP iPAQ	hx4705		HTC	Hurricane
HP iPAQ	h3870		HP iPAQ	hx4710		HTC	Imagio
HP iPAQ	h3875		HP iPAQ	K3 Obsidian		HTC	Inspire 4G
HP iPAQ	h3900		HP iPAQ	rw6815		HTC	Libra
HP iPAQ	h3950		HP iPAQ	rw6818		HTC	Love
HP iPAQ	h3955		HP iPAQ	rw6828		HTC	Magician
HP iPAQ	h3970		HP iPAQ	rx1700		HTC	MAX 4G
HP iPAQ	h3975		HP iPAQ	rx1950		HTC	Monet
HP iPAQ	h4140		HP iPAQ	rx1955		HTC	MTeoR
HP iPAQ	h4150		HP iPAQ	rx3100		HTC	Nike
HP iPAQ	h4155		HP iPAQ	rx3110		HTC	Oxygen
HP iPAQ	h4350		HP iPAQ	rx3115		HTC	Ozone
HP iPAQ	h4355		HP iPAQ	rx3400		HTC	P3350
HP iPAQ	h5100		HP iPAQ	rx3415		HTC	P3400
HP iPAQ	h5150		HP iPAQ	rx3417		HTC	P3600

HP iPAQ	h5155	HP iPAQ	rx3700	HTC	P4000		
HP iPAQ	h5400	HP iPAQ	rx3710	HTC	P4350		
HP iPAQ	h5450	HP iPAQ	rx3715	HTC	P4450		
HP iPAQ	h5455	HP iPAQ	rx4240	HTC	P4500		
HP iPAQ	h5500	HP iPAQ	rx5700	HTC	P6300		
HP iPAQ	h5555	HP iPAQ	rx5900	HTC	P6500		
HP iPAQ	h6310	HP iPAQ	rz1700	HTC	Panda		
HP iPAQ	h6315	HP iPAQ	rz1715	HTC	Polaris		
HP iPAQ	h6320	HTC	Advantage X7500	HTC	Prophet		
HP iPAQ	h5325	HTC	Advantage X7501	HTC	Pure		
HP iPAQ	h6340	HTC	Advantage A7510	HTC	Robbie		
HP iPAQ	h6365	HTC	Alphine	HTC	S320		
HP iPAQ	h6500	HTC	Amadeus	HTC	S630		
HP iPAQ	hw6510	HTC	Apache	HTC	S720		
HP iPAQ	hw6515	HTC	Aria	HTC	S730		
HP iPAQ	h6515a	HTC	Artemis	HTC	Sensation 4G		
HP iPAQ	h6710	HTC	Athena	HTC	Shadow Hotspot		
HP iPAQ	h6715	HTC	Atlas	HTC	Shift		
HP iPAQ	hw6900	HTC	Blue Angel	HTC	Sirius		
HP iPAQ	hw6910	HTC	Breeze	HTC	Sonata		
HP iPAQ	hw6920	HTC	Canary	HTC	Star Trek		
HP iPAQ	hw6925	HTC	Cavalier	HTC	Surround		
HP iPAQ	h6940	HTC	Charmer	HTC	Tanager		
HP iPAQ	hw6945	HTC	Dash 3G	HTC	Thunderbolt		
HP iPAQ	h6965	HTC	Dream	HTC	Tilt2		
HP iPAQ	hx2000	HTC	Elf	HTC	Touch2		
HP iPAQ	hx2090	HTC	EVO View 4G (Tablet)	HTC	Touch 3G		
HP iPAQ	nx2110	HTC	Excalibur	HTC	Touch Cruise 09		
HP iPAQ	hx2190	HTC	Falcon	HTC	Touch Dual		
HP iPAQ	hx2400	HTC	Faraday	HTC	Touch HD		
HP iPAQ	hx2410	HTC	Feeler	HTC	Touch Pro		
HP iPAQ	hx2415	HTC	Flyer (tablet)	HTC	Touch Pro 2		
HTC	Touch Viva	IZENMOBILE	KRMA KSMT	MITAC	8380		
HTC	Tilt	KINPO	iDO S601	MITAC	8390		
HTC	Trinity	KINPO	IDO S630	MITAC	8870		
HTC	Typhoon	KINPO	SP70	MITAC	168RS		
HTC	TyTN	KINPO	SP70R	MITAC	336BT		
HTC	Universal	KINPO	SP90	MITAC	338 Plus		
HTC	Volans	KROME	Intellekt iQ200	MITAC	A201		
HTC	Vox	KROME	Intellekt iQ700	MITAC	A501		
HTC	Voyager	KROME	Mega M900i	MITAC	A700		
HTC	Wallaby	KROME	Navigator F1	MITAC	A701		
HTC	Wizard	KROME	Spy	MITAC	A702		
HTC	XV6900	KYOCERA	E1100	MITAC	P3400		

IMATE	JAM Black	LENOVO	ET960	MITAC	P350		
IMATE	JAMA	LENOVO	ET980	MITAC	P550		
IMATE	JAMA101	LENOVO	i921	MITAC	OP550m		
IMATE	JAMA 201	LG	Incite	MITAC	P560		
IMATE	JAQ	LG	AX145	MITSUBISHI	Trium Mondo		
IMATE	JAQ3	LG	KB770	MOTOROLA	A845		
IMATE	JAQ4	LG	KC1	MOTOROLA	A3100		
IMATE	JASJAM	LG	KE990	MOTOROLA	C250		
IMATE	PDA-2	LG	KF300	MOTOROLA	C343a		
IMATE	EDVO	LG	KF310	MOTOROLA	C353		
IMATE	PDAL	LG	KF350	MOTOROLA	C353t		
IMATE	PDA-N	LG	KF700	MOTOROLA	C380		
IMATE	Phone Edition	LG	KF750	MOTOROLA	E550		
IMATE	Pocket PC	LG	KF755	MOTOROLA	i275		
IMATE	Smartflip	LG	KF770	MOTOROLA	i720		
IMATE	Smartphone	LG	KF900	MOTOROLA	i733		
IMATE	Smartphone2	LG	KP100	MOTOROLA	i740		
IMATE	SP2	LG	KP501	MOTOROLA	i920		
IMATE	SP3	LG	KS20	MOTOROLA	i920		
IMATE	SP4m	LG	KT610	MOTOROLA	i930		
IMATE	SP5m	LG	KU380	MOTOROLA	MC35		
IMATE	SPJAS	LG	Optimus GT540	MOTOROLA	MPx		
IMATE	Ultimate 5150	LG	P509 (Optimus T)	MOTOROLA	MPx100		
IMATE	Ultimate 6150	LG	U8100	MOTOROLA	T720i		
IMATE	Ultimate 7150	LG	U8150	MOTOROLA	V1150		
IMATE	Ultimate 8150	LG	U8180	MOTOROLA	V120e		
IMATE	Ultimate 8502	LG	U8210	MOTOROLA	V120t		
IMATE	Ultimate 9150	LG	U8290	MOTOROLA	V120x		
IMATE	Ultimate 9502	LG	U8300	MOTOROLA	V186		
IMATE	810-F	LG	Quantum	MOTOROLA	V191		
INTERMEC	730	MIO	A502	MOTOROLA	V330		
INTERMEC	730B	MIO	A702	MOTOROLA	V505		
INTERMEC	741B	MIO	P3600	MOTOROLA	V535		
INTERMEC	751B	MIO	P560	MOTOROLA	V545		
INTERMEC	761B	MITAC	168	MOTOROLA	V547		
INTERMEC	CN2B	MITAC	169	MOTOROLA	V555		
INTERME	CN3	MITAC	180	MOTOROLA	V557		

C INTERME					
C	CN30	MITAC	336	MOTOROLA	V60
INTERME					
C	Mercury	MITAC	338	MOTOROLA	V60c
i-teq	Bond	MITAC	339	MOTOROLA	V60g
i-teq	Laser	MITAC	558	MOTOROLA	V60i
i-teq	X-Bond	MITAC	728	MOTOROLA	V60s
MOTORO					
LA	V60t	NOKIA	N8	ORANGE	SPV C220
MOTORO					
LA	V60x	NOKIA	N75	ORANGE	SPV C700
MOTORO					
LA	V66	NOKIA	N78	ORANGE	SPV Classic
MOTORO					
LA	Z10	NOKIA	N81	ORANGE	SPV E100
MOTORO					
LA	Backflip	NOKIA	N92	ORANGE	SPV E200
MOTORO					
LA	Bravo	NOKIA	X5	ORANGE	SPV E600
MOTORO					
LA	Charmer	O2	Cosmo	ORANGE	SPV E610
MOTORO					
LA	Cliq 2	O2	Pocket PC	ORANGE	SPV E650
MOTORO					
LA	Defy	O2	XDA Argon	ORANGE	SPV F600
MOTORO					
LA	Flipout	O2	XDA Atom	ORANGE	SPV M1000
MOTORO					
LA	Flipside	O2	XDA Atom Exec	ORANGE	SPV M2000
MWG	Atom Life	O2	XDA Atom Life	ORANGE	SPV M2500
MWG	Atom V	O2	XDA Atom Pure	ORANGE	SPV M3000
MWG	Zinc II	O2	XDA Comet	ORANGE	SPV M3100
NEONOD					
E	N1	O2	XDA Cosmo	ORANGE	SPV M500
NEONOD					
E	N1m	O2	XDA Exec	ORANGE	SPV M5000
NEONOD					
E	N2	O2	XDA Flame	ORANGE	SPV M600
NEXIO	S160	O2	XDA Graphite	ORANGE	SPV M650
NEXIO	XP40	O2	XDA Guide	ORANGE	SPV M700
NOKIA	2320 Classic	O2	XDA Ignito	ORANGE	SPV Smartphone
NOKIA	2605	O2	XDA II	ORSiO	G735
NOKIA	2705 Shade	O2	XDA ii mini	ORSiO	GN725
NOKIA	3205	O2	XDA iis	ORSiO	N725 GPS
NOKIA	3606	O2	XDA mini S	ORSiO	P745
NOKIA	3711	O2	XDA NEO	PALM	Treo 700w
NOKIA	5030	O2	XDA Nova	PALM	Treo 700wx
NOKIA	5250	O2	XDA Orbit	PALM	Treo 750V
NOKIA	6012	O2	XDA Orbit II	PALM	Treo 755p
NOKIA	6102	O2	SDA Orion	PALM	Treo 800w

NOKIA	6121		O2	XDA Phone		PALM	Tungsten E2
NOKIA	6126		O2	XDA Stealth		PALM	Tungsten T5
NOKIA	6205		O2	XDA Serra		PANASONIC	X700
NOKIA	6350		O2	XDA Stellar		PANASONIC	X800
NOKIA	6560		O2	XDA Terra		PANTECH	PN820
NOKIA	6590		O2	XDA Trion		PARAGON WIRELESS	HIPI-2200
NOKIA	6600		O2	XDA Zest		PHAROS	600 GPS Phone
NOKIA	6681		O2	XDA Zinc		PHAROS	Traveller GPS 525
NOKIA	6682		O2	Xphone		POCKET NAVIGATOR	PN-3550
NOKIA	6710 Navigator		O2	Xphone ii		POCKET NAVIGATOR	PN-3560
NOKIA	6750		O2	Xphone iim		POCKET NAVIGATOR	PN-P201
NOKIA	7205		OKWAP	K728		POCKET NAVIGATOR	PN-P550 A
NOKIA	7250		OKWAP	K868		POCKET NAVIGATOR	PN-P550 A
NOKIA	8801		OKWAP	K860		PSION TEKLOGIX	Workabout PRO
NOKIA	8890		OKWAP	K871		PSION TEKLOGIX	Workabout PRO G2
NOKIA	6236i		OKWAP	S868		QOOL LABS	QDA Icon
NOKIA	C5		OPTICON	H-16B		QOOL LABS	QDA Lite
NOKIA	C6		OPTICON	H-19A		QOOL LABS	Twins 178
NOKIA	E5		OPTICON	H-19-B		QTEK	1010
NOKIA	E52		OPTICON	PHL-5400		QTEK	2020
NOKIA	E61i		OPTICON	PHL-7111		QTEK	2060
NOKIA	E62		OPTICON	PHL-7114		QTEK	7070
NOKIA	E66		OPTICON	PHL-7142		QTEK	8010
NOKIA	E72		ORANGE	SPV C100		QTEK	8020
NOKIA	E90		ORANGE	SPV C200		QTEK	8060
QTEK	8080		SAMSUNG	S5230W		SONY ERICSSON	K610im
QTEK	8100		SAMSUNG	S5233		SONY ERICSSON	K700c
QTEK	8200		SAMSUNG	S5600v Blade		SONY ERICSSON	K750c
QTEK	8300		SAMSUNG	S5603		SONY ERICSSON	K758c
QTEK	8310		SAMSUNG	S7350		SONY ERICSSON	K790a
QTEK	8500		SAMSUNG	SCH-i830		SONY ERICSSON	K790c
QTEK	8600		SAMSUNG	SCH-M400		SONY ERICSSON	K790i
QTEK	9000		SAMSUNG	SGH-A257		SONY ERICSSON	M608i

QTEK	9090		SAMSUNG	SGH-A877		SONY ERICSSON	S700c
QTEK	9100		SAMSUNG	SGH-A887		SONY ERICSSON	T226
QTEK	9600		SAMSUNG	SGH-D300		SONY ERICSSON	T237
QTEK	2020i		SAMSUNG	SGH-D730(Symbian)		SONY ERICSSON	T290a
QTEK	G100		SAMSUNG	SGH-E808		SONY ERICSSON	T616
QTEK	S100		SAMSUNG	SGH-i250		SONY ERICSSON	T637
QTEK	S110		SAMSUNG	SGH-i300x		SONY ERICSSON	W300c
QTEK	S200		SAMSUNG	SGH-i400(Symbian)		SONY ERICSSON	W550c
QTEK	S310		SAMSUNG	SGH-i450(Symbian)		SONY ERICSSON	W600
QUEST	Pocket PC6700		SAMSUNG	SGH-i718		SONY ERICSSON	W600c
ROVER PC	C6		SAMSUNG	SGH-i750		SONY ERICSSON	W710c
ROVER PC	E5		SAMSUNG	SGH-i760		SONY ERICSSON	W715a
ROVER PC	G5		SAMSUNG	SGH-i770		SONY ERICSSON	W800c
ROVER PC	G6		SAMSUNG	SGH-i897		SONY ERICSSON	W810c
ROVER PC	M5		SAMSUNG	SGH-i917		SONY ERICSSON	W830
ROVER PC	N6		SAMSUNG	i9000 (Galaxy S 4G)		SONY ERICSSON	W880c
ROVER PC	N7		SAMSUNG	i9100 (Galaxy S 2)		SONY ERICSSON	W888c
ROVER PC	P6		SAMSUNG	SGH-L870(Symbian)		SONY ERICSSON	W900c
ROVER PC	P745		SAMSUNG	SGH-P730		SONY ERICSSON	Xperia X10
ROVER PC	Q5		SAMSUNG	SGH-T929		SONY ERICSSON	Xperia X10 mini
ROVER PC	Q6		SAMSUNG	SGH-T589 (Gravity Smart)		SONY ERICSSON	Xperia X8
ROVER PC	R5		SAMSUNG	SGH-T759 (Exhibit 4G)		SONY ERICSSON	Z502a
ROVER PC	S5		SAMSUNG	SGH-T959		SONY ERICSSON	Z520c
ROVER PC	S6		SAMSUNG	SGH-Z600		SONY ERICSSON	Z525a
ROVER PC	S7		SHARP	W-ZERO3		SONY ERICSSON	Z525i
PC	W5		SIEMENS	A62		SONY ERICSSON	Z530c
SAMSUN G	GALAXY S3		SIEMENS	C6620		SONY ERICSSON	Z550a
SAMSUN G	GALAXY S4		SIEMENS	L56		SONY ERICSSON	Z550c

SAMSUNG	B7320	SIEMENS	S56	SONY ERICSSON	Z710c
SAMSUNG	B7330, OmniaPRO	SIEMENS	S66	SONY ERICSSON	Z712a
SAMSUNG	B7610 OmniaPRO	SIEMENS	SX45	SPRINT	Ace
SAMSUNG	C6620	SIEMENS	SX45i	SPRINT	PPC-6600
SAMSUNG	C3010	SIEMENS	SX56	SPRINT	PPC-6601
SAMSUNG	C3110	SIEMENS	SX66	SPRINT	PPC-6700
SAMSUNG	E1310	SOCKET MOBILE	SoMo 650	SPRINT	PPC-6800
SAMSUNG	i520(Symbian)	SONY ERICSSON	C901 GreenHeart	SPRINT	XV6600
SAMSUNG	i550(Symbian)	SONY ERICSSON	G900	TDS	Nomad 800B
SAMSUNG	i560(Symbian)	SONY ERICSSON	J300a	TDS	Nomad 800L
SAMSUNG	i640	SONY ERICSSON	J300c	TDS	Nomad 800LC
SAMSUNG	i7110(Symbian)	SONY ERICSSON	K300a	TDS	Nomad 800LE
SAMSUNG	i7500(Android)	SONY ERICSSON	K300c	TDS	Ranger 300X
SAMSUNG	i8910	SONY ERICSSON	K310a	TDS	Ranger 500X
SAMSUNG	i907	SONY ERICSSON	K310c	T-MOBILE	Ameo
SAMSUNG	M7610	SONY ERICSSON	K500c	T-MOBILE	Comet
SAMSUNG	Propel Pro	SONY ERICSSON	K506c	T-MOBILE	Dash
SAMSUNG	S3110	SONY ERICSSON	K510a	T-MOBILE	G2
SAMSUNG	S3310	SONY ERICSSON	K510c	T-MOBILE	G2x
T-MOBILE	MDA	T-MOBILE	h6315	VODAFONE	VDA V
T-MOBILE	MDA Compact	TOSHIBA	G900	VODAFONE	VPA Compact
T-MOBILE	MDA Compact II	TOSHIBA	TG01	VODAFONE	VPA II Compact
T-MOBILE	MDA Compact III	UBIQUIO	601	VODAFONE	VPA III
T-MOBILE	MDA II	UBIQUIO	503G	VOXTEL	W210
T-MOBILE	MDA III	VELOCITY MOBILE	103	VOXTEL	W420
T-MOBILE	MDA Mail	VELOCITY MOBILE	111	VOXTEL	W520
T-MOBILE	MDA Pro	VERIZON WIRELESS	PN-820	VOXTEL	W740
T-MOBILE	MDA Pocket PC	VERIZON WIRELESS	XV6600		
T-MOBILE	MDA Touch	VERIZON WIRELESS	XV6800		

T-MOBILE	MDA Vario	VODAFONE	v1210	
T-MOBILE	MDA Vario III	VODAFONE	v1240	
T-MOBILE	myTouch 3G slide	VODAFONE	v1415	
T-MOBILE	myTouch 4G	VODAFONE	v1605	
T-MOBILE	SDA	VODAFONE	v1620	
T-MOBILE	SDA II	VODAFONE	v1640	
T-MOBILE	SDA Music	VODAFONE	VDA	
T-MOBILE	Shadow 2	VODAFONE	VDA Compact GPS	
T-MOBILE	Sidekick 4G	VODAFONE	VDA Compact IV	
T-MOBILE	Wing	VODAFONE	VDA II	

Handsets – Other

Other handsets can be tested on CellDEK TEK, however the amount of data extracted has not been assessed and all information should be treated as a minimum data extraction.

GPS Device – Verified CellDEK Support

The following GPS Devices have been tested on CellDEK TEK using the standard verification procedures of Logicube. The results below display the data sets that can be extracted from CellDEK TEK for the specific handset. There may be additional data sets available from handsets and these will require further examination.

Key:

Phone ID		Home		Routes	
Contacts		Favourites	★	Routes with Waypoints	
Call Logs		Recent Destinations		Track Logs	
Call Logs w timestamp		Location History		Track Logs with Waypoints	
SMS					
SMS w timestamp					

	Manufacturer	Model	GPS ID	Contacts	Call Logs	Incoming SMS	Outgoing SMS	Home	Favourite	Recent Destinations	Location History	Routes	Tracks	
1	ACER	P610							★					Apr 2009

2	GARMIN	nuvi 250W							★					Oct 2008
3	GARMIN	nuvi 300							★					Oct 2008
4	GARMIN	nuvi 760							★					Apr 2009
5	HP	iPAQ 314							★					Jan 2009
6	NAVIGON	7210							★					Jul 2009
7	NAVMAN	S50 3D							★					Jul 2009
8	NAVMAN	S70							★					Jul 2009
9	NAVMAN	S70 3D							★					Jul 2009
10	NDRIVE	S300							★					Apr 2009
11	TOMTOM	G0 720							★					Jul 2008
12	TOMTOM	ONE							★					Jul 2008
13	**TOMTOM**	**ONE XL**							★					**Jan 2010**
14	**VIAMICHELIN**	**X970**							★					**Jan 2010**

GPS Device – Expected Support

The following GPS Devices have not been verified on CellDEK TEK however their appearance or technology indicates that data extraction will be possible. It is recommended that all data is treated as a minimum extraction as there may be additional data sets available that require further examination.

Data can be extracted from these handsets as normal by selecting either Mass Storage Device or Windows PDA from the GPS Device list.

GARMIN nuvi: 200, 200W, 205, 205W, 250, 255W, 260, 260W, 265T, 265WT, 270, 275T, 350, 360, 370, 500, 550, 600, 610, 650, 660, 670, 680, 750, 755T, 765T, 770, 775T, 780, 785T, 850, 855, 855T, 880, 885T, 1200, 1250, 1260T, 1300, 1350T, 1370T, 1390T, 1490T, 5000

NAVIGON: 1200, 1210, 2100 max, 2110 max, 2150 max, 2200, 2310, 3300 max, 3310 max, 4310 max, 4350 max, 7310, 8110, 8310

NAVMAN: S30, S30 3D, S50, S80, S90i

NDRIVE: G280R, G280S, G400, G800R, S400, Touch, Touch XL

TOMTOM: GO, GO 300, GO 500, GO 510, GO 520, GO 530, GO 540 LIVE, GO 700, GO 710, GO 730, GO 740 LIVE, GO 910, GO 920, GO 940 LIVE, XL

Additional Cable Support for PDAs

The set of 5 cable tips can be purchased from **http://www.gomadic.com/celldek.html** This will enable the User to extract data from the following 150 PDAs:

PDA Cable Tip 1

DELL: Axim X5

PDA Cable Tip 2

CINGULAR iPAQ: h6320, h6325

COMPAQ iPAQ: 3800, 3830, 3835, 3850, 3870, 3875, 3900, 3950, 3955, 3970, 3975

HP iPAQ: h1900, h1910, h1915, h1920, h1930, h1935, h1937, h1940, h1945, h2200, h2210, h2215, h3800, h3830, h3835, h3850, h3870, h3875, h3900, h3950, h3955, h3970, h3975, h4140, h4150, h4350, h4355, h5100, h5150, h5155, h5400, h5450, h5455, h5500, h5550, h5555, h6315, h6320, h6325, h6340, h6365, hw6500, hw6510, hw6515a, hw6515, hw6710, hw6715, hw6910, hw6915, hw6925, hw6940, hw6965, hx2000-Series, hx2090, hx2110, hx2190, hx2410, hx2415, hx2490, hx2495, hx2700-Series, hx2750, hx2790, hx2795, hx4700, hx4705, hx4710, rx1700-Series, rx1950, rx1955, rx3100, rx3110, rx3115, rx3400, rx3415, rx3417, rx3700, rx3710, rx3715, rz1700, rz1710, rz1715

MOTOROLA: C250

T-MOBILE iPAQ: h6315

PDA Cable Tip 8

AT&T: SX56, SX66

AUDIOVOX: 5050, 6601, XV6600

CINGULAR: SX66

HTC: Blue Angel, Canary, Falcon, Harrier, Himalaya, Tanager, Voyager, Wallaby

I-MATE: PDA2k, PPC Phone, Smartphone 1, Smartphone 2

O2: XDA IIi, XDA IIs, XDA-II, XDA PPC Phone, XPhone I

ORANGE: SPV-E100, SPV-E200, SPV-M1000, SPV-M2000, SPV-Smartphone

QTEK: 1010, 2020, 7070, 8060, 8080, 9090

SIEMENS: SX56, SX66

SPRINT: 6601, XV6600

T-MOBILE: MDA, MDA II, MDA III, PPC Edition

VERIZON: XV6600

PDA Cable Tip 11

DELL: Axim X30, Axim X3i, Axim X3, Pocket DJ 20GB, Pocket DJ 30GB

PDA Cable Tip 13

DELL: Axim X50v, Axim X50, Axim X51v, Axim X51

8. Index

Alphanumeric Keypad, 61
Android, 94, 96
  Rooting, 67, 68
Android Devices, 67
Apple, 41, 42, 105
Audiovox, 105
Audit Trail, 6, 88
Battery, 7, 9, 19, 20, 22, 31, 57, 58, 59, 106
Blackberry, 29, 78, 105
Bluetooth, 5, 6, 9, 10, 19, 22, 28, 29, 42, 43, 44, 45, 46, 108, 141
Button, OK, 99
Button, Read New Device, 22, 28, 30, 33, 34, 41
Card, Flash Memory, 7, 16, 20, 33, 35, 56, 57, 59, 76, 91
Card, Memory Stick, 76
Card, SIM, 5, 9, 30, 31, 42, 47, 48, 49, 55, 57, 64, 75, 94, 106
Card, Smart Disk (SD), 76
CellDEK TEK, 8
CellDEK TEK, 5
CellDEK TEK Application, 20
Charging Battery, 20
Control Panel, 33, 46
Data, Extended, 34, 46, 63, 81, 93
Data, Standard, 62, 63, 86
Disclaimer, Liability Limitation, I
Emitter, Infrared, 46
Files, Audio, 47, 63
Files, Image, 33, 34, 47, 63, 97
Files, Other, 34, 46, 47, 63, 93
Files, Video, 47, 63
Garmin, 35, 105
Generic Extraction Module, 28
Global Positioning System, GPS, 34, 35
GNU, 168, 169, 171, 172
Hash, MD5, 6, 81, 96, 97
Indicator Light, 9, 42, 43
Infrared (IR), 5, 6, 9, 19, 22, 28, 29, 30, 42, 43, 45, 46, 78, 108, 141
iPhone
  Apple, 72, 74
iPhone, Apple, 37, 41, 105
iPod, Apple, 41
iTunes, Apple, 41
JPEG, Deleted, 34
JPEG, Embedded, 34
JPEG, Extant, 34
Kyocera, 105
LG, 105
Logical Extraction, 24
Metadata, 96, 97
MMS Message, 76, 106, 108
Motorola, 64, 65, 76, 79, 105
Network Isolation Card, 26, 48, 49, 94
NIC, 94
Nokia, 7, 56, 57, 64, 75, 102, 105, 108
Nokia CA-42 Cable, 7, 56, 108
Non-Latin Language, 64
OPERATING SYSTEM (OS), III, 10, 75, 169, 171, 172
Palm, 29, 105
Password, 29, 78
PC, Examination, 7, 61
PERSONAL DATA ASSISTANT (PDA), I, 5, 6, 28, 29, 34, 36, 45, 92, 141, 157
Phone Cable Adapter Storage Rack, 8
Phone Cable Jack, 8
Phone, Cellular, 6, 7, 22, 24
Physical Extraction, 23, 95
PIN Number, 22, 31, 44, 55, 78, 106
Port, USB, 6, 8, 9, 10, 16, 20, 31, 33, 56, 99
Power, AC, 7, 9, 19, 20
Power, DC, 16, 19, 20
Reader, Flash Memory Card, 33
Ruler, 9, 27
Samsung, 64, 105
Sanyo, 105
Screen, Activity Log, 6, 62, 64, 91
Screen, Case Details Input Form, 61
Screen, Cell Phone Models, 26
Screen, Cell Phone Selection, 25
Screen, Connectivity Option, 42, 43, 44, 45, 47, 48, 55
Screen, Device Type Selection, 22, 28, 30, 33, 34, 41

Screen, Discover Devices, 44
Screen, Main Application, 20, 21, 22, 28, 30, 33, 34, 41, 56, 62, 88, 89
Screen, Standard Data View, 86
Siemens, 65, 79, 105
SIM Card ID Cloning, 48
SMS Message, 29, 35, 47, 62, 75, 76, 79, 94, 96, 97, 106, 108
Software License, 156, 164
Software Update, 79, 92, 99
Sony Ericsson, 64, 65, 76, 77, 102, 105
Symbian, 75
Target Device, 5, 22, 26, 42, 43, 44, 45, 61, 62, 63, 64, 88, 93
Technical Support, Logicube, II, 88, 99, 174
TomTom, 35, 105
USB Port, 6, 10, 16, 20, 31, 33
USB Storage Device, 88, 91, 99
Warranty, Parts and Labor, I, II, III
Windows, 5, 6, 9, 10, 13, 14, 16, 18, 22, 29, 64, 105, 141
Write Protect, 8, 76
Write-Protected, 9

9. CellDEK Software License

CellDEK TEK Software License - EU

EU CUSTOMER LICENCE (Used for all regions apart from US)

BETWEEN FORENSIC SCIENCE SERVICE LTD. a company incorporated in England under number 05607780 and having its registered office at Trident Court, 2920 Solihull Parkway, Birmingham Business Park, Birmingham B37 7YN (the **"Licensor"**); and the End User (**"You"**).

RECITAL

(A) The Licensor is engaged in creating and is the owner of the Software (as hereinafter defined).

(B) The Licensor has agreed to grant You a non-exclusive licence to use the Software (as hereinafter defined) upon the terms and conditions of this Agreement.

(C) The Licensor has provided You with a copy of the End User Software Licence (as hereinafter defined) which grants You a licence to use the Microsoft and related software contained within the PC embedded in the CellDEK device.

OPERATIVE PROVISIONS

1 **DEFINITIONS AND INTERPRETATION**

1.1 In this Agreement including the Schedule hereto the following words shall have the following meanings:

"Agreement"
means this agreement, including its Schedule;

"Business Day"
means any day other than Saturdays, Sundays or public holidays in England;

"Commencement Date"
means the date of the Contract;

"Contract"
means the contract between the Parties for the purchase of the Goods in which the Software is embedded;

"Customer"
means a third party who is licensed by the Licensor to use the Software when it is installed into the Goods;

"End User Licence"
means the paper licence provided with the CellDEK device for software within the embedded PC;

"Executable Code"
means the fully compiled version of a software programme that can be executed by a computer and used by a Customer without further compilation;

"Force Majeure"
means the following:

(a) Acts of God;

(b) outbreak of hostilities, riot, civil disturbance, acts of terrorism;

(c) an act of any government or authority (including refusal or revocation of any licence or consent);
(d) fire, explosion, flood, fog or bad weather;
(e) power failure, failure of telecommunication lines, failure or breakdown of plant, machinery or vehicles;
(f) default of suppliers or sub-contractors;
(g) theft, malicious damage, strike, lock-out or industrial action of any kind; and
(h) any cause or circumstance whatsoever beyond the reasonable control of a Party;

"Goods"
means CellDEK mobile phone and PDA data extraction kit;

"Intellectual Property Rights"
means all inventions (whether patentable or not), patents, utility models, designs (both registered and unregistered and including rights in semiconductor topographies), copyright, database rights, trade and service marks (both registered and unregistered) together with all applications for, right to the grant of and extensions of the same, and all other intellectual and industrial property including but not limited to all similar or analogous rights throughout the world, in each case for the full term of the relevant right;

"Licensed Software Materials"
means the Software, the Software Documentation, the Periodic New Releases, any Releases and any fixes created and which are provided to You pursuant to the Contract;

"Periodic New Releases"
means a release of the Software that is made available to all Customers and that corrects errors or changes or improves the Software's utility, efficiency or capability and associated cable upgrade specifications and which is provided to You pursuant to the Contract;

"Party"
means each of the persons identified as parties to this Agreement and jointly "**the Parties**";

"Release"
means the most recent standard version of the Software made available to all Customers and which is provided to You pursuant to the Contract;

"Software"
means the software programs in Executable Code only and which are listed in the Schedule;

"Software Documentation"
means the instruction manuals, user guides and other information and any modifications or additions thereto to be made available by the Licensor at its discretion to You in either printed or machine readable form;

"Software Specifications"
means the technical specifications from time to time published by the Licensor in respect of the Software; and

"Use"
means the copying or transmission of the Software or (where in machine readable form) the Software Documentation for use in accordance with the instructions contained in the Software or (as the case may be) the Software Documentation.

1.2 In this Agreement unless the context requires otherwise:
1.2.1 the singular includes the plural and vice versa and any gender includes any other gender;
1.2.2 references to Clauses and Schedules are to Clauses of, and

schedules to, this Agreement;

1.2.3 any reference to an enactment, order, regulation or other similar instrument includes a reference to that enactment, order, regulation or instrument as from time to time amended, extended or re-enacted;

1.2.4 references to persons include bodies corporate, unincorporated associations and partnerships, and any reference to the Parties include their respective successors, permitted assigns and personal representatives; and

1.2.5 any reference to “company”, “subsidiary” and “holding company” shall be as defined in section 736 of the Companies Act 1985.

1.3 The headings of this Agreement are for ease of reference only and shall not affect its interpretation or construction.

1.4 In the event of a conflict between any of the terms of this Agreement including its Schedules and appendices, the conflict shall be resolved according to the following order of priority:

1.4.1 the Clauses of this Agreement;

1.4.2 the Schedules of this Agreement; and

1.4.3 the Recitals.

2 **GRANT OF LICENCE**

2.1 The Licensor hereby grants to You a non-exclusive non-transferable licence to Use the Software (and where appropriate the Software Documentation, any Periodic New Releases and any Releases) and to possess and refer to the Software Documentation (the “**Licence**”) in accordance with and subject to the terms and conditions of this Agreement.

2.2 The Licensor has provided a copy of the the End User Licence to You. By using the Software You are granted a licence to the software in PC embedded in the CellDEK device and You agree to be bound by the terms of the End User Licence agreement.

3 **TERM**

This Agreement shall commence on the Commencement Date and shall continue in force unless or until terminated by either Party in accordance with the provisions of Clause 10.

4 **PROPERTY AND CONFIDENTIALITY IN THE LICENSED SOFTWARE MATERIALS**

4.1 The Licensed Software Materials contain Confidential Information (as defined in Clause 9.1 below) of the Licensor and all Intellectual Property Rights in the Licensed Software Materials are the exclusive property of or are licensed to the Licensor.

4.2 You shall not:

4.2.1 save as provided in Clause 5 below copy the whole or any part of the Licensed Software Materials;

4.2.2 save as required to be permitted by law modify, merge or combine the whole or any part of the Licensed Software Materials with any other software or documentation;

4.2.3 remove or tamper with any proprietary notice contained in the Licensed Software Materials;

4.2.4 assign, license, transfer, sell, lease, rent, charge or otherwise deal in or encumber the Licensed Software Materials nor use on behalf of or make available the same to any third party; or

4.2.5 save as required to be permitted by law reverse compile the whole or any part of the Licensed Software Materials from object code into source code.

4.3 You shall:

4.3.1 keep confidential the Licensed Software Materials and limit access to the same to those of its employees, agents and sub-contractors who either have a need to know or who are engaged in the Use of the

Software (including where appropriate the Software Documentation);

4.3.2 reproduce on any copy of the Software or Licensed Software Materials the Licensor's copyright and trade mark notices;

4.3.3 maintain an up-to-date record of the number of copies of the Licensed Software Materials and their location and upon request forthwith produce such record to the Licensor;

4.3.4 only use the Software in accordance with the number of copies licensed to You (and as set out in the Schedule);

4.3.5 without prejudice to the foregoing take all such other steps as shall from time to time be necessary to protect the Confidential Information (as defined in Clause 9.1 below) and Intellectual Property Rights of the Licensor in the Licensed Software Materials;

4.3.6 in its Use of the Licensed Software Materials comply with all present and future statutes, laws, ordinances, regulations and/or guidelines of any applicable jurisdiction or agency;

4.3.7 ensure that its personnel are, at all times, educated and trained in the proper Use and operation of the Licensed Software Materials;

4.3.8 ensure that the Licensed Software Materials are used in accordance with any and all applicable Software Documentations; and

4.3.9 indemnify and hold harmless the Licensor from and against all claims, damages, losses, judgments, fees, expenses and costs, including legal costs, arising out of or resulting from Your acts, negligence or failure to comply with this Clause 4 or any other provision of this Agreement.

4.4 You shall inform all relevant employees, agents and sub-contractors that the Licensed Software Materials constitute Confidential Information (as defined below) of the Licensor and that all Intellectual Property Rights therein are the property of or are licensed to the Licensor and the You shall take all such steps as shall be necessary to ensure compliance by its employees agents and sub-contractors with the provisions of this Clause 4.

5 **COPYING OF THE LICENSED SOFTWARE MATERIALS**

5.1 You shall be entitled to make one back-up copy of the Software. Any such copy shall in all respects be subject to the terms and conditions of this Agreement and shall be deemed to form part of the Software.

5.2 You shall not be entitled to copy in whole or in part the Software Documentation.

6 **WARRANTY**

6.1 Subject to the exceptions set out in Clause 6.3 below and the limitations upon its liability in Clause 7 below the Licensor warrants that:

6.1.1 it has the right, power and authority to license the Licensed Software Materials upon the terms and conditions of this Agreement; and

6.1.2 the Software will for a period of twelve (12) months from the date it is delivered to You conform to the Software Specifications.

6.2 You shall give notice to the Licensor as soon as it is reasonably able upon becoming aware of a breach of warranty. If no such notice is given within 30 days of You becoming aware of a breach of warranty, the Licensor shall not be liable for such breach of warranty.

6.3 The Licensor shall have no liability to remedy a breach of warranty where such breach arises:

6.3.1 in respect of Software that is not properly licensed pursuant to Clause 2 of this Agreement;

6.3.2 in circumstances where You is not in conformity with the minimum technical requirements and prerequisites set out in the Software Specifications; or

6.3.3 as a result of:

a) the improper use, operation or neglect of either the Software or the Goods upon which the Software is installed

or used;
b) the modification of the Software or its merger (in whole or in part) with any other software;
c) the failure by You to implement recommendations in respect of or solutions to faults previously advised by the Licensor;
d) any repair, adjustment. alteration or modification of the Software by any person other than the Licensor without the Licensor's prior consent;
e) failure by You adequately to back-up the Software;
f) any breach by You of any of its obligations under any maintenance agreement in respect of the Goods upon which the Software is installed or used;
g) any failure, accident, neglect or misuse of equipment, software or media not supplied by the Licensor;
h) Your failure to install and Use in substitution for the previous release any New Release of the Software within ninety (90) days of receipt of the same; or
i) the use of the Software for a purpose for which they were not designed.

6.4 Without prejudice to the foregoing the Licensor does not warrant that the Use of the Software will meet Your requirements or that the operation of the Software (including where in machine-readable form the Software Documentation) will be uninterrupted or error free.

6.5 Nothing in this Agreement shall obligate the Licensor to improve or otherwise support the Licensed Software Materials.

6.6 Subject to the foregoing all conditions, warranties, terms, representations (unless fraudulent) and undertakings express or implied, statutory or otherwise in respect of the Licensed Software Materials are hereby excluded to the fullest extent permissible by law.

7 **LIMITATION OF LIABILITY**

7.1 Where any sustainable claim is made by You in respect of any breach of the warranties given by the Licensor pursuant to clause 6 above, the Licensor shall be entitled at its option either to replace or repair the Software free of charge. This shall be Your sole and exclusive remedy and the Licensor shall have no further liability to You for breach of such warranties.

7.2 Subject to Clause 7.1 above and without prejudice to Clause 7.4, and except as otherwise provided in this Agreement, the total liability of the Licensor in contract, tort (including negligence or breach of statutory duty) or otherwise arising by reason of or in connection with this Agreement shall be limited in aggregate to the total price paid and payable by You for the Goods under the Contract.

7.3 Without prejudice to Clause 7.4, in no event shall the Licensor be liable to You for loss of revenue, loss of anticipated savings, loss of profits, loss of data, damage to goodwill, loss of reputation or for any type of indirect, economic or consequential loss or damage whatsoever or howsoever caused.

7.4 Neither party excludes or limits liability to the other for death or personal injury caused by its negligence or for fraud.

7.5 Save as expressly stated in this Agreement, all conditions, warranties and representations (unless fraudulent) expressed or implied by statute, common law or otherwise in relation to the Licensed Software Materials are hereby excluded to the fullest extent permissible by law.

8 **RISK IN THE LICENSED SOFTWARE MATERIALS**

Risk in the Licensed Software Materials will pass to You upon

the date of delivery of the Licensed Software Materials to You.
If subsequently the Licensed Software Materials are (in whole or in part) destroyed, damaged or lost the Licensor will upon written request replace the same subject to You paying its then prevailing charges.

9 **CONFIDENTIALITY**

9.1 Neither Party shall use, copy, adapt, alter, disclose or part with possession of any information or data of the other Party which is disclosed or otherwise comes into its possession directly or indirectly as a result of this Agreement and which is of a confidential nature ("**Confidential Information**") without the prior written consent of the disclosing Party except as strictly necessary to perform its obligations or exercise its rights under this Agreement.

9.2 The receiving Party undertakes not to disclose any Confidential Information of the disclosing Party to any third party other than employees, professional advisors and approved sub-contractors of the receiving Party on a "need to know" basis only and to whom disclosure is necessary for the proper performance of their duties under this Agreement.

9.3 The foregoing obligations shall not apply to Confidential Information that:

9.3.1 was known to the receiving Party prior to receipt from the disclosing Party; or

9.3.2 is received from a third party without breach of any other confidentiality arrangements; or

9.3.3 is or becomes public knowledge other than by breach of this Clause or is independently developed by or for the receiving Party; or

9.3.4 is required to be disclosed by any applicable law or by order of any Court of competent jurisdiction or any government body, agency or regulatory body, provided that the receiving Party shall use all reasonable endeavours to give the other Party not less than two business days' written notice of the disclosure.

9.4 The Parties shall ensure that their respective employees, agents and sub-contractors comply with the provisions of this Clause and are bound by terms and conditions of use and non-disclosure at least as onerous as those contained in this Clause.

9.5 The obligations in this Clause shall continue in force notwithstanding termination of this Agreement for any reason.

9.6 If this Agreement is terminated, the receiving Party shall return or destroy at the request of the disclosing Party all Confidential Information of the disclosing Party.

10 **TERMINATION**

10.1 This Agreement may be terminated:

10.1.1 by either Party upon giving not less than sixty (60) days written notice to the other;

10.1.2 forthwith by either Party upon giving written notice to the other if the other commits any material breach of this Agreement and which (in the case of a breach capable of remedy) shall not have been remedied within thirty (30) days of a written request to remedy the same (and non-payments of sums when due to the Licensor shall be a material breach);

10.1.3 forthwith by either Party upon giving written notice to the other Party if the other Party makes or proposes to make any arrangement or composition with its creditors or has a receiver, administrative receiver, administrator, liquidator, manager or similar officer appointed in respect of all or any part of its assets or passes a resolution for winding-up (otherwise than for the purpose of a solvent amalgamation or reconstruction where the resulting entity assumes all of the obligations of the relevant party under this Agreement), or (in the case of an individual) commits any act of bankruptcy or dies, or (in the case of a partnership)

is dissolved, or undergoes or suffers any analogous acts or proceedings under any foreign law;

10.1.4 if the other Party shall commit any act of bankruptcy, shall have a receiving order made against it, shall make or negotiate for any composition or arrangement with or assignment for the benefit of its creditors or if the other party being a body corporate, shall present a petition or have a petition presented by a creditor for its winding up or shall enter into any liquidation (other than for the purpose of reconstruction or amalgamation), shall call any meeting of its creditors, shall have a receiver of all or any of its undertakings or assets appointed, shall be deemed by virtue of section 123 of the Insolvency Act 1986 to be unable to pay its debts, or shall cease to carry on business; or

10.1.5 forthwith by either Party upon giving written notice to the other if the other shall cease to carry on its business or substantially the whole of its business.

10.2 Any termination of this Agreement (however occasioned) shall not operate so as to affect any accrued rights or liabilities of either Party.

10.3 Within fourteen (14) days of the termination of this Agreement (howsoever and by whomsoever occasioned) You shall return or destroy (as the Licensor shall instruct) all copies of the Licensed Software Materials in its possession and a duly authorised officer of You shall certify in writing to the Licensor that You has complied with such obligation.

11 **FORCE MAJEURE**

11.1 Neither Party shall be liable to the other Party for any delay or non-performance of its obligations under this Agreement to the extent that its performance is interrupted or prevented by Force Majeure.

11.2 Such delay or failure shall not constitute a breach of this Agreement and the time for performance shall be extended by a period equivalent to that during which performance is so prevented provided that if such delay or failure persists for sixty (60) days or more, the Party not affected may, at its option and if it is reasonable for it to do so, terminate this Agreement by giving fourteen (14) days written notice to the other Party.

12 **WAIVER**

Any failure or delay on the part of either Party to exercise any power or right under this Agreement shall not operate as a waiver of it, nor shall any single or partial exercise of any such right or power preclude any other or further exercise of the right or power. Any of the rights and remedies of either Party under this Agreement may at any time be enforced separately or concurrently with any other rights and remedies, whether under this Agreement or arising by operation of law with the effect that the rights and remedies are cumulative and not exclusive of each other.

13 **NOTICES**

13.1 Any notices required to be given under this Agreement shall be in writing and delivered personally or by first class post or transmitted by facsimile to the Parties as set out below:

13.1.1 The Licensor:

Address: The Forensic Science Service Ltd
Trident Court
2920 Solihull Parkway,
Birmingham Business Park,
Birmingham B37 7YN

For attention of: Science Manager - Programming
Telephone: +44 (0) 845 120 7272

E-mail: sales.office@fss.pnn.police.uk

13.1.2 You:

to the address or facsimile number that You provided for Your purchase of the Software.

13.2 Any notice served by:

13.2.1 personal delivery, shall be deemed served at the time of delivery;

13.2.2 first class post, shall be deemed served at the start of the fifth business day after posting; and

13.2.3 facsimile, shall be deemed served on the day of transmission (or the next following business day if transmitted outside the Party's normal working hours) provided that the sender shall have received a transmission report indicating that all the pages of the notice have been transmitted to the correct facsimile number.

13.3 Any Party may change any details of its address or facsimile number by notice in the manner described above.

14 **SEVERABILITY**

If any term or provision of this Agreement or its application to any Party or circumstances shall, to any extent, be invalid or unenforceable, the remainder of this Agreement or the application of the term or provision to any other Party or circumstances, other than those as to which it is already invalid or unenforceable, shall not be affected, and each term and provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law. The Parties shall negotiate in good faith to replace any invalid or unenforceable provisions by substitute provisions.

15 **ENTIRE AGREEMENT**

15.1 This Agreement and the Contract constitute the entire agreement between the Parties with respect to the subject matter hereof and supersede and invalidate all prior oral or written communications, understandings, representations or warranties relating to the subject matter hereof.

15.2 Each Party warrants to the other that it has not relied on any such communications, understandings, representations or warranties in entering into this Agreement.

15.3 Notwithstanding anything contained herein to the contrary, the provisions of Clauses 4, 7, 9 and any other Clauses which are intended to survive termination shall survive termination of the Agreement and shall continue in full force and effect thereafter.

16 **ASSIGNMENT/SUB-CONTRACTING/AGENCY**

16.1 You shall not be entitled to assign, sub-contract or otherwise transfer your rights or obligations under this Agreement whether in whole or in part without the Licensor's prior written consent.

16.2 The Licensor shall be entitled to assign its rights hereunder (in whole or in part) to any person, partnership or company.

16.3 This Agreement shall be binding upon and inure for the benefit of the Parties and their respective permitted successors and assigns.

17 **THIRD PARTY RIGHTS**

A person who is not a Party to this Agreement has no rights under the Contracts (Rights of Third Parties) Act 1999 to enforce any term of this Agreement but this does not affect any right or remedy of a third party which exists or is available apart from that Act.

18 **PUBLICITY**

The Parties agree to keep confidential the terms of this Agreement, and neither Party shall make any announcement in relation to this Agreement or otherwise publicise its existence or its contents or use or refer to the name, trade mark or trade name of the other Party in any disclosure

without the prior written consent of the other Party such consent not to be unreasonably withheld or delayed. A Party shall be entitled to withhold such consent and shall be under no obligation to provide any explanation for such action.

19 **AMENDMENTS**

No amendment to this Agreement whether oral or written shall be binding on either Party unless in writing and signed on behalf of the Parties.

20 **GOVERNING LAW AND JURISDICTION**

20.1 This Agreement shall be governed by and construed in accordance with English law.

20.2 It is irrevocably agreed that the English courts shall have non-exclusive jurisdiction as regards any claim or matter arising out of or in connection with this Agreement.

21 **NO PARTNERSHIP/AGENCY**

Nothing in this Agreement is intended to or shall operate to create a partnership or joint venture of any kind between the Parties, or to authorise either Party to act as agent for the other.

22 **THIRD PARTY SOFTWARE**

22.1 CellDEK software uses libraries and other components from the LibUSB-Win32 project.

The library is distributed under the terms of the GNU Lesser General Public License (LGPL).

The other components are distributed under the terms of the GNU General Public License (GPLv2).

These licences are available to read at the LibUSB-Win32 project home-page www.libusb-win32.sourceforge.net.

22.2.1 This product includes software developed by the Apache Software Foundation (http://www.apache.org/) and is licensed under the Apache License, Version 2.0 (the "Apache License");you may not use this file except in compliance with the Apache License. You may obtain a copy of the Apache License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the Apache License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

22.2.2 The End User License is provided as a paper licence along with the CellDEK device. By using the Software You agree to be bound by the terms of the End User Licence Agreement. Additional copies of this licence are also available from Logicube.

CellDEK TEK Software License - US

THIS AGREEMENT shall be binding on installation of the Software and is by and between **THE FORENSIC SCIENCE SERVICE** (“Licensor”) and the End User (“You”).

1. Grant of License. So long as You shall be in compliance with the terms hereof, You shall have a limited, perpetual, non-exclusive and non-transferable license (“License”) to use the Software solely in the course of lawfully operating the device with which the Software is integrated, and for no other purpose. You are also granted a license to use the Microsoft and related software contained within the PC embedded in the CellDEK device and by using such software You agree to be bound by the terms of the End User License agreement, a copy of which is provided to You with the device. Additional copies of the End User License are also available from Logicube.

2. Title. No title or ownership in the Software is transferred to You. Title to all applicable rights in patents, copyrights, trademarks and trade secrets in the Software shall remain in Licensor. Software licensed hereunder is property of Licensor, unless listed separately in section 12, Third Party Licences,, and You shall be bound by

and observe such nature thereof as herein provided. You shall take appropriate action by instruction to and agreement with its employees, agents, consultants or any other end users who are permitted access to the Software to fulfill its obligations hereunder. Without limiting the foregoing, You shall ensure that any end user license agreement provided with the Software is brought to the reasonable attention of all such end users. You shall not provide, or otherwise make available, the Software or copies thereof to any third party. All ownership rights to any developments or improvements to the Software made by You shall belong solely to Licensor.

3. Copying.

(a) You shall be entitled to make one copy the Software for back-up and archival purposes. You shall include in each such copy the Licensor's copyright notice(s) and trademark(s).

(b) In no event shall You be entitled to remove or tamper with any such proprietary notices contained in the Software.

(c) Software shall not be reverse compiled, disassembled, reverse assembled, or otherwise reverse engineered. All rights in or to the Software not expressly granted to You under this Agreement are retained by Licensor.

4. Warranty.

(a) Subsection 4(b) hereof provides Licensor's twelve month limited warranty for the Software.

(b) Licensor warrants that for a period of twelve (12) months from installation of the Software, the Software will perform in accordance with the Software documentation. In the event the Software does not perform in accordance with such documentation, then during such twelve month period, Licensor shall at its option: (i) correct any variance between the Software performance and its documentation; or (ii) replace the Software media. The foregoing shall be Your sole and exclusive remedy with respect to the Software or otherwise hereunder. EXCEPT AS WARRANTED BY THE PRECEDING THREE SENTENCES, THE SOFTWARE IS LICENSED AS IS, AND NO WARRANTY OF ANY KIND, EXPRESS, IMPLIED OR STATUTORY, WHETHER IN RELATION TO MERCHANTABILITY, HIDDEN DEFECTS, FITNESS FOR PARTICULAR PURPOSE, COURSE OF PERFORMANCE, COURSE OF DEALING, USAGE OF TRADE, NONINFRINGEMENT, THAT THE SOFTWARE'S OPERATION SHALL BE ERROR FREE OR UNINTERRUPTED, OR OTHERWISE IS GIVEN BY LICENSOR TO YOU OR ANY OTHER PARTY. LICENSOR SHALL NOT UNDER ANY CIRCUMSTANCES BE RESPONSIBLE FOR ANY LOSSES OR DAMAGES, DIRECT, INDIRECT, SPECIAL, ORDINARY, EXEMPLARY, CONSEQUENTIAL OR OTHERWISE (INCLUDING, BUT NOT LIMITED TO, LOSS OF DATA, LOSS OF REVENUE, PROFIT OR USE OR COST OF CAPITAL OR OF SUBSTITUTE USE OF PERFORMANCE), ARISING OUT OF OR RELATED IN ANY WAY TO THE TRANSACTIONS CONTEMPLATED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. UNDER NO CIRCUMSTANCES SHALL LICENSOR'S TOTAL LIABILITY OF ALL KINDS ARISING OUT OF OR RELATED TO THIS AGREEMENT (INCLUDING BUT NOT LIMITED TO ANY WARRANTY OR SUPPORT-RELATED CLAIMS HEREUNDER), REGARDLESS OF WHETHER ANY ACTION OR CLAIM IS BASED ON CONTRACT, STRICT LIABILITY, TORT OR OTHERWISE, EXCEED THE TOTAL AMOUNT PAID BY YOU FOR THE DEVICE WITH WHICH THE SOFTWARE IS PROVIDED (DETERMINED AS OF THE DATE OF ANY FINAL JUDGMENT IN SUCH ACTION).

(c) This limited warranty shall be valid and remain in effect only if: (i) the Software is used and maintained by You as directed by all applicable documentation; (ii) You promptly notify Licensor in writing of the claim and is able to reproduce it; (iv) the Software has not in any way been modified and You have not installed any other hardware or software affecting the Software; (v) the claim is unrelated to the failure by You to follow the most current instructions issued by Licensor or its authorized reseller; (vi) the claim is unrelated to the negligence, accident or act of You or any third party; (vii) You provide reasonable access to the Software; (viii) there has been no operation of the Software under conditions more severe than those for which the Software was designed; (ix) the claim is unrelated to force majeure; (x) the claim is unrelated to operator error or to any software, firmware, peripheral or communication device; and (xi) where authorized Licensor updates are provided to You, the Software incorporates all such updates within ninety (90) days of each update being provided or otherwise made available. In the event it is determined that any warranty claim reported by You falls within any of the foregoing exceptions, You shall pay for services at then current rates and charges.

(d) Nothing herein shall obligate Licensor or its authorized reseller to improve or otherwise

support any Software licensed hereunder. Without prejudice to the foregoing, all support, enhancements, modifications and upgrades delivered to You, if any, shall be subject to the same protections, restrictions, limited warranty, and limitations on copying and tampering as set forth elsewhere herein.

5. Component Items. In the event that Licensor or its authorized reseller shall deliver to You any individual components apart from the Software specifically licensed hereunder, You shall not use or attempt to use any such component outside or independent of the parameter of this License, and each such component shall be subject to the same rules and restrictions binding on You to which the Software is subject, whether under this Agreement or otherwise.

6. Breach. In the event that either party hereto should breach any of the material terms and conditions of this Agreement, the aggrieved party shall notify the other party. The offending party shall thereafter have 30 days to correct the identified deficiency. In the event such deficiency is not rectified to the satisfaction of the aggrieved party, then the aggrieved party shall be entitled to declare this Agreement null, void and of no further force and effect, and all rights hereunder, including the License granted hereunder, shall be cancelled. In the event of the expiration or termination hereof for any reason (a) You shall continue to observe the limitations and restrictions set forth in Sections 3(b) and (c), 4, 5-7 and 11 hereof, and (b) immediately return or destroy the Software and all copies thereof as directed by Licensor or its authorized reseller and, if requested by Licensor or its authorized reseller, certify in writing as to the destruction or return of the Software and all copies thereof.

7. Confidentiality. You acknowledge and understand that the Software involves highly confidential and trade secret information that belongs to Licensor ("Confidential Information"). The Confidential Information shall be maintained in absolute confidence by You, not be used other than for the purposes hereof and not be disclosed by You, except as may be permitted under this Agreement, to anyone, without the prior written permission of Licensor. All Confidential Information coming into Your possession shall be marked by You as such.

8. Use. (a) You shall be solely responsible for the design, repair and configuration of Your equipment, machinery, systems and/or products, except where specified in another agreement between the parties hereto. You assume all rights and liability for results obtained by the use or implementation of the Software, whether such results are used singly or in combination with other software or products. You agree that Licensor shall have no liability to You or to any third party for any ordinary, special, indirect, consequential or other damages or losses that might arise directly or indirectly by reason of Your use of the Software. You shall be responsible for use of all hardware, including but not limited to operating procedures, audit controls, accuracy and security of input and output data, restart and recovery routines and other procedures necessary for Your intended use of hardware. You shall maintain back-up data necessary to replace Your critical data in the event of loss of or damage to such data from any cause. Regardless of the cause of loss of Your data, Licensor shall not in any way be liable therefor.

(b) In Your use of the Software You shall comply with all present and future statutes, laws, ordinances, regulations and/or guidelines of any applicable jurisdiction or agency. You shall ensure that its personnel are, at all times, educated and trained in the proper use and operation of the Software and that the Software is used in accordance with any and all applicable manuals, documentation, and instructions. You shall indemnify and hold Licensor harmless from and against all claims, damages, losses, judgments, fees, expenses and costs, including attorneys' fees, arising out of or resulting from Your acts, negligence or failure to comply with this or any other provision of this Agreement.

9. Delay in Performance. Neither party shall be liable for failure or delay in the performance of any of its obligations under this Agreement, except obligations for the payment of money, if such delay or failure is caused by circumstances of force majeure that are beyond the control of the party affected. Notwithstanding the foregoing, in the event that any delay or failure identified in this Section 9 continues for sixty (60) consecutive days, the party adversely affected by such delay may cancel this Agreement and the License granted hereunder upon written notice to the other party.

10. Term. This Agreement, unless terminated pursuant to other applicable provisions hereof, shall commence on the date the Software is purchased and shall be perpetual, unless terminated in accordance with this Agreement.

11. Miscellaneous.

(a) This Agreement shall be governed by and interpreted in accordance with the substantive (and not conflicts) laws of California. Other than for collection and equitable actions against You, to the extent legal actions are commenced by or name Licensor, each party hereto: (i) submits to the exclusive general jurisdiction of the State and Federal Courts in the State of Ohio, and any **appellate courts** from any decision thereof, in any legal action or proceeding relating to this Agreement; (ii) consents that any such action or proceeding may be brought in such courts; and (iii) waives any objection that he, she or it may have to the venue of any such action or proceeding in any such court or that such action or proceeding was brought in an inconvenient court and agrees not to plead or claim the same. Any action arising hereunder or related in any way hereto against Licensor shall be brought within one (1) year after the occurrence giving rise to the claim or be barred forever. If any provision or portion of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions or portions of this Agreement shall remain in full force and effect and shall in no way be affected, impaired or invalidated. IT IS EXPRESSLY UNDERSTOOD AND AGREED THAT EACH AND EVERY PROVISION OF THIS AGREEMENT THAT PROVIDES FOR A LIMITATION OF LIABILITY, DISCLAIMER OF WARRANTIES OR EXCLUSION OF DAMAGES, IS INTENDED BY THE PARTIES TO BE SEVERABLE AND INDEPENDENT OF ANY OTHER PROVISION AND TO BE ENFORCED AS SUCH. You hereby waive any governmental immunity, if applicable, to any and all causes of action arising hereunder or related hereto. All notices required to be given hereunder shall be in writing. Notices shall be considered delivered and effective upon receipt when sent by registered or certified mail, postage pre-paid, return receipt requested, addressed to the parties as set forth above or by telecopy with proof of transmission. Either party, upon written notice to the other, many change the address to which future notices shall be sent.(b) It is expressly declared that this Agreement and the relationship between the parties hereby established do not constitute a partnership, joint venture or agency arrangement between them.

All amounts payable hereunder are exclusive of all freight, insurance and all **federal, state, local,** municipal or other excise, sales, use, property or similar taxes, duties, import charges and fees, now in force or enacted in the future, and all such amounts shall be paid by You, unless You provides a certificate of exemption or similar document exempting a payment from an applicable tax.

(c) If You attempt to use, copy, disclose, or transfer any portion of the Software or any modification thereof or Confidential Information in a manner contrary to the terms of this Agreement or in derogation of Licensor's rights, whether those rights are explicitly stated, determined by law, or otherwise, Licensor shall have the right, in addition to any other legal remedies available, to injunctive relief enjoining such acts without the posting of bond, it being acknowledged by You that all other remedies are inadequate.

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